Automotive Products Selector Guide

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AUDIO ASSPs

Device	Description	Power Dissipation Max (mW)	Supply Voltage Min (V)	Supply Voltage Max (V)	Operating Temp Min (°C)	Operating Temp Max (°C)	Package(s)
LC72725KV	RDS Demodulator	100	3	5.5	-40	85	SSOP-16
LC72717PW	Mobile FM Multiplex Broadcast Demodulator (DARC) Receiver	100	2.7	3.6	-40	85	SQFP-64
LC786965UW	Single Chip Digital Signal Processor LSI for Compact Disc Player	540	3	3.6	-40	85	SQFP-144

AUDIO DSPs

Device	Description	DSP Core (bits)	MIPS	RAM (kB)	Audio Inputs	Audio Outputs	Package(s)
LC786820E	Compressed Audio Signal Processor IC with USB Host Controller	24	64	320	Analog x3, Digital x3	Analog stereo x1, Analog mono x1, Digital x1	PQFP-100, QIP-100E
LC786821E	Compressed Audio Signal Processor IC with USB Host Controller and Bluetooth	24	64	320	Analog x3, Digital x3	Analog stereo x1, Analog mono x1, Digital x1	PQFP-100, QIP-100E

M-LVDS DRIVERS & RECEIVERS

Device	V_{CC} Typ (V)	Operating Temperature (°C)	Signaling Rate (Mbps)	Input/Output Type	Driver Propagation Delay Max (ns)	Driver Rise/Fall Time Max (ns)	Driver RMS Period Jitter Max (ps)	Receiver Type	Receiver Propagation Delay Max (ns)	Receiver Rise/Fall Time Max (ns)	Receiver RMS Period Jitter Max (ps)	Package(s)
NBA3N200S	3.3	-40 to +125	200	LVCMOS/MLVDS	2.4	1.6	3.5	Type 1	6	2.3	8	SOIC-8
NBA3N201S	3.3	-40 to +125	200	LVCMOS/MLVDS	2.4	1.6	3.5	Type 1	6	2.3	8	SOIC-8
NBA3N206S	3.3	-40 to +125	200	LVCMOS/MLVDS	2.4	1.6	3.5	Type 2	6	2.3	8	SOIC-8
NBA3N011S	3.3	-40 to +125	400	LVCMOS/LVDS	1.5	1.0	N/A	N/A	N/A	N/A	N/A	SOT-23-5
NBA3N012C	3.3	-40 to +125	400	LVDS/LVCMOS	3.5	0.8	N/A	N/A	N/A	N/A	N/A	SOT-23-5

CLOCK GENERATORS

Device	Input Level	Output Level	V_S Typ (V)	f_{in} Typ (MHz)	f_{out} Typ (MHz)	$t_{Jitter(Cy-Cy)}$ Typ (ps)	$t_{Jitter(Period)}$ Typ (ps)	$t_{Jitter(\Phi)}$ Typ (ps)	t_R & t_F Typ (ps)	t_R & t_F Max (ps)	Operating Temp (°C)	Package(s)
NBA3N5573	LVCMOS Crystal	HCSL	3.3	25	25-200	2	1.5	0.4	340	700	-40 to +105	QFNW-16

TOUCH SENSORS

Device	Sensing Method	Number of Sensing Inputs	Number of Sensing Outputs	Interface Control	Touch Sensing	Proximity Sensing	V_{DD} Min (V)	V_{DD} Max (V)	I_{DD} Typ (µA)	Operating Temp (°C)	Package(s)
LC717A30UJ	Mutual capacitance sensing method	8	0	I2C, SPI	Yes	Yes	2.6	5.5	800	-40 to +105	SSOP-30
LC717A30UR	Mutual capacitance sensing method	8	0	I2C, SPI	Yes	Yes	2.6	5.5	800	-40 to +105	VCT-28

CMOS IMAGE SENSORS

Device	Sensor/ SOC	Resolution (MP)	Optical Format	Frame Rate	Pixel Size (µm)	Shutter Type	CFA	Operating Temp (°C)
AR0140AT	Sensor	1	1/4”	60 fps	3	Electronic Rolling Shutter	Color	-40 to +105
AR0132AT	Sensor	1.2	1/3”	1.2 45 fps, 720p 60 fps	3.8	Electronic Rolling Shutter	Color, Mono, RCCC	-40 to +105
AR0135AT	Sensor	1.2	1/3"	60 fps @ 720p, 54 fps @ full res	3.8	Global Shutter	Mono	-40 to +105
AR0138AT	Sensor	1.2	1/2.6"	69 fps @ 720p	4.2	Electronic Rolling Shutter	RGB, RCCC	-40 to +105
AR0143AT	Sensor	1.3	1/4"	30 fps	3.0	Electronic Rolling Shutter	RGB, RCCB	-40 to +105
AR0144AT	Sensor	1	1/4"	60 fps @ 720p	3.0	Global Shutter	Mono	-40 to +105
AR0147AT	Sensor	1.3	1/4"	60 fps	3.0	Electronic Rolling Shutter	RGB	–40 to +110
AR0220AT	Sensor	1.7	1/1.8"	60 fps	4.2	Electronic Rolling Shutter	RGB, RCCC, RCCB	-40 to +105
AR0230AT	Sensor	2	1/3"	30 @ fps 1080p	3.0	Electronic Rolling Shutter	Mono, RGB	-40 to +105
AR0231AT	Sensor	2.3	1/2.7"	60 fps full res @ 2 exp, 40 fps full res @ 3 exp	3.0	Electronic Rolling Shutter	RGB	-40 to +125
AR0233AT	Sensor	2.6	1/2.5"	60 fps	3.0	Electronic Rolling Shutter	RGB, RCCB	-40 to +105
AR0234AT	Sensor	2.3	1/2.6"	120 fps	3.0	Global Shutter	Mono, RGB	-40 to +85
AR0237AT	Sensor	2.1	1/2.7"	60 fps	3.0	Electronic Rolling Shutter	RGB	-40 to +105
AR0239AT	Sensor	2.3	1/2.7"	30 fps @ 3 exp, 90 fps @ 1080p	3.0	Electronic Rolling Shutter	RGB	-30 to +85
AR0323AT	Sensor	3.1	1/2"	60 fps	3.0	Electronic Rolling Shutter	RGB, RCCB	-40 to +105
AR0820AT	Sensor	8.3	1/2"	40 fps	2.1	Electronic Rolling Shutter	RGB, RCCC, RCCB	-40 to +105
ARX550AT	Sensor	VGA	1/5"	66.37 fps @ full res	3.8	Electronic Rolling Shutter	RGB	-40 to +105
MT9V024	Sensor	WVGA	1/3”	60 fps	6.0	Global Shutter	Color, Mono, RCCC	-40 to +105
AS0140AT	SOC	1	1/4"	60 fps	3.0	Electronic Rolling Shutter	RGB	-40 to +105
AS0142AT	SOC	1	1/4"	45 fps at 1.0 MP, 60 fps at 720p	3.0	Electronic Rolling Shutter	RGB888, RGB565, YUV422 8-/10-bit	-40 to +105
AS0147AT	SOC	1.3	1/4"	45 fps @ full res (3 exposure), 60 fps @ 720p	3.0	Electronic Rolling Shutter	RGB	-40 to +105
AS0148AT	SOC	1.3	1/4"	45 fps @ full res (3 exposure), 60 fps @ 720p	3.0	Electronic Rolling Shutter	RGB	-40 to +105
AS0149AT	SOC	1.3	1/4"	30 fps @ 1280 x 960	3.0	Electronic Rolling Shutter	RGB	-40 to +105
ASX340AT	SOC	VGA	1/4”	60 fps digital, 30 fps analog	5.6	Electronic Rolling Shutter	Color	-40 to +105
ASX342AT	SOC	VGA	1/4"	50/60 fps	5.6	Electronic Rolling Shutter	RGB	-40 to +105
ASX344AT	SOC	VGA	1/4"	60 fps NTSC, 50 fps PAL interlaced, 60 fps progressive	5.6	Electronic Rolling Shutter	RGB	-40 to +105
ASX350AT	SOC	VGA	1/5"	60 fps digital, 30 fps analog	3.8	Electronic Rolling Shutter	Color	-40 to +105

IMAGE CO-PROCESSORS

Device	Maximum Resolution	Supported Sensors	Frame Rate	HDR with ALTM	Dewarp	Spatial Transform Engine Software Add-on	Overlays	GPIOs	Sensor Interfaces	Output Interfaces	Input Clock (MHz)	Output Clock	Operating Temp (°C)	Package
AP0100	1.2 MP	AR0132AT, AR0140AT, ARX550AT	1.2 MP 45 fps 720p60	Yes	Yes, Up to 165°	Yes, Multiple viewing options, PTZ	Yes	Up to 5	2-lane HiSPi, 12-bit parallel	NTSC/PAL, 16-bit parallel	6-30	27 MHz (NTSC/PAL) 84 MHz parallel	–30 to +70 (CS Version) –40 to +105 (AT Version)	VFBGA-100
AP0101	1.2 MP	AR0132AT, AR0140AT, ARX550AT	1.2 MP 45 fps	Yes	No	No	No	Up to 5	12-bit parallel	16-bit parallel	6-30	84 MHz parallel	–30 to +70 (CS Version) –40 to +105 (AT Version)	VFBGA-81
AP0102AT	2.0 MP	AR0132AT, AR0140AT, AR0136AT	30 fps @ 1080p, 45 fps @ 1.2Mp, 60 fps @ 720p	Yes	No	Yes	Yes	Up to 7	Parallel and HiSPi	Up to 24-bit parallel	6-30 MHz	125 MHz	–40°C to +105°C	VFBGA-100
AP0200AT	2.0 MP	AR0132AT, AR0136AT, AR0140AT, AR0230AT	30 fps @ 1080p, 45 fps @ 1.2Mp, 60 fps @ 720p	Yes	No	Yes	Yes	Up to 7	12-bit Parallel and HiSPi	Ethernet-MII, RMII, GMII	10-29 MHz	125 MHz	–40°C to +105°C	VFBGA-100
AP0201AT	2.0 MP	AR0132AT, AR0136AT, AR0140AT, AR0230AT	30 fps @ 1080p, 45 fps @ 1.2Mp, 60 fps @ 720p	Yes	No	No	No	Up to 7	12-bit Parallel and HiSPi	Ethernet-MII, RMII, GMII	10-29 MHz	125 MHz	–40°C to +105°C	VFBGA-100
AP0202AT	2.0 MP	AR0132AT, AR0136AT	30 fps @ 1080p, 45 fps @ 1.2Mp, 60 fps @ 720p	Yes	No	No		Up to 7	12-bit Parallel and HiSPi	Up to 24–bit Parallel	10–29 MHz	125 MHz	–40°C to +105°C	VFBGA-100

LED DRIVERS

Device	Description	Topology	V_I Min (V)	V_I Max (V)	V_O Max (V)	I_O Max (ma)	f_{sw} Typ (kHz)	LEDs in Series, Max	LEDs in Parallel, Max	Package(s)
CAV4201	350 mA High Efficiency LED Driver	Step-Down	7	–	32	350	1000	–	1	TSOT-23-5
NCV3065	1.5 A Constant Current Inverting Switching Regulator for HB-LEDs	Step-Down; Step-Up; Step-Up/Step-Down	3	40	40	1500	250	8	10	DFN-8; SOIC-8
NCV3066	1.5 A Constant Current Inverting Switching Regulator for HB-LEDs with Enable	Step-Down; Step-Up; Step-Up/Step-Down	3	40	40	1500	250; Up to 300	8	10	DFN-8; SOIC-8
NCV7683	Linear LED Driver, Octal, 100 mA Sequencing	Linear		40		200	–	4	24	SSOP-24 NB EP
NCV7685	Linear LED Driver, 12-Channel, 60 mA	Linear				60	–	4	12	SSOP-24 NB EP
NCV7691	Current Controller for Automotive LED Lamps	Linear	4.5	18	18	1000	–	3	8	SOIC-8
NCV7692	Current Controller for Automotive LED Lamps	Linear		50		1000	–	4	24	SOIC-8
NUD4001	High Current LED Driver	Linear	3.6	30	28	500	–	8	–	SOIC-8
NUD4011	Constant Current Regulator & LED Driver	Linear	3.6	–	200	70	–	100	–	SOIC-8
LC75760	LED Driver, 12-Channel, Constant Current	Linear	2.7	5.5	6.3	50	–	1	12	SSOP-24

CONSTANT CURRENT REGULATORS

Device	Max V_{ak} (V)	Cont I_{reg} (mA)	I_{reg} (%)	P_D (mW)	Package(s)
NSV50010Y	50	10	±30	463	SOD-123
NSV45015W	45	15	±20	463	
NSV45030	45	30	±15	463	
NSV45025	45	25	±15	463	
NSV45020	45	20	±15	463	
NSV45030A	45	30	±10	463	
NSV45025A	45	25	±10	463	
NSV45020A	45	20	±10	463	
NSV45035JZ	45	35 - 70	±15	1389	SOT-223
NSV45020JZ	45	20 - 40	±15	1389	
NSI45030Z	45	30	±15	1389	
NSI45025Z	45	25	±15	1389	
NSI45030AZ	45	30	±10	1389	
NSV45025AZ	45	25	±10	1389	
NSV45060JD	45	60 - 100	±15	2700	DPAK
NSV45090JD	45	90 - 160	±15	2700	
NSV50150AD	50	150 - 350	±10	4200	
NSV50350AD	50	350	±10	11000	
NSV50350AS	50	350	±10	–	SMC
NSV50350AS	50	350	±10	5800	
NSVC2020JB	120	20	±15	3000	SMB
NSVC2030JB	120	30	±15	3000	
NSVC2050JB	120	50	±15	3000	

LCD DRIVERS

Device	Segments*			V_{DD} (V)	Interface Voltage (V)	V_{LCD} (V)	Output Ports	PWM Channels	Package(s)
	Static, 1/2 Duty	**1/3 Duty, 1/4 Duty**							
LC75843	24 to 28, 46 to 54	66 to 78, 84 to 100		4.0 - 6.3	3.3 or 5.0	V_{DD}	4	3	TSSOP-36
	1/3 Duty	**1/4 Duty**							
LC75829	147 to 159	192 to 208		4.5 - 6.0	3.3 or 5.0	V_{DD}	4	–	SQFP-64
LC75806	198 to 231	260 to 304		4.5 - 6.0	3.3 or 5.0	V_{DD}	9	–	TQFP-100
	1/8 Duty	**1/9 Duty**	**1/10 Duty**						
LC75818	Dot matrix (5 x 7) x 16 + 80	Dot matrix (5 x 8) x 16 + 80	Dot matrix (5 x 9) x 16 + 80	2.7 - 3.6	3.3 or 5.0	4.5 - 10.0	4	–	TQFP-120
LC75812	Dot matrix (5 x 7) x 13 + 65	Dot matrix (5 x 8) x 12 + 64	–	2.7 - 3.6	3.3 or 5.0	4.5 - 10.0	3	3	TQFP-100
	Static, 1/2 Duty	**1/3 Duty, 1/4 Duty**	**LED Driver**						
LC75805	38, 74	108, 140	48 channel	4.5 - 5.5	V_{DD}	V_{DD}	–	7	QIP-100E

*** Number of segments depends on 'common v segment' configuration.**

MOTOR DRIVERS

Device	Description	Operating Voltage Min (V)	Operating Voltage Max (V)	Output Current (mA)	T_j Max (°C)	Regulator Voltage (V)	Control Type	Motor Phase	Specified for Sensorless Motor	On-Chip Motor Controller	LIN Transceiver	SPI	Current Limit	Over Voltage	Thermal Shutdown	ASIL Level	Package(s)
LV8907UW	BLDC pre-driver with stand-alone speed control	5.5	20	50	175	3.3 or 5.0	PWM	3	✓	✓	✓	✓	✓	✓	✓		SQFP-48K
LV8968BBUWR2G	BLDC gate driver	8	28	50	175	3.3 or 5.0	PWM	3				✓	✓	✓	✓	B	SQFP-48K

MOTOR DRIVER MODULES

Device	Description	V_B Max (V)	I_{out} Max (A)	R_S (mΩ)	Pre-Driver	Current Limit	Thermal Shutdown	UVLO	Package(s)
STK984-190-E	Power MOSFET Module	40	30						SPCM24
FTCO3V455A1	3-Phase MOSFET Inverter Power Module	40	150	0.53					APMCB-A19
NFVA35065L32**	3-Phase IGBT Intelligent Power Module (IPM), Inverter	650	50		✓	✓	✓	✓	ASPM27-CAA
NFVA34065L32**	3-Phase IGBT IPM, Inverter	650	40		✓	✓	✓	✓	ASPM27-CAA
NFVA33065L32**	3-Phase IGBT IPM, Inverter	650	30		✓	✓	✓	✓	ASPM27-CAA
NFVA23512NP2T**	3-Phase IGBT IPM, Inverter	1200	35		✓	✓	✓	✓	ASPM34
NFVA22512NP2T*(**)	3-Phase IGBT IPM, Inverter	1200	25		✓	✓	✓	✓	ASPM34
NFVA25012NP2T*(**)	3-Phase IGBT IPM, Inverter	1200	50		✓	✓	✓	✓	ASPM34

*** Pending 4Q19. ** AEC-Q & AQG324.**

RELAY DRIVERS

Device	Configuration	Circuit Type *	Voltage (V)	Current (mA)	Package(s)
SZNUD3124	Single	MOSFET	24	150	SOT-23
SZNUD3124D	Dual	MOSFET	24	150	SC-74
SZNUD3160	Single	MOSFET	60	150	SOT-23
SZNUD3160D	Dual	MOSFET	60	150	SC-74
NCV7750	Quad	MOSFET	40	300	SSOP-24
NCV7608	Octal	MOSFET	40	300	SSOP36-EP
NCV7240	Octal	MOSFET	40	300	SSOP-24
NCV7751	12x	MOSFET	40	300	SSOP24-EP
NCV7754	Octal	MOSFET	40	300	SSOP-24
NCV7748	Octal	MOSFET	40	300	SOIC-14

*** MOSFET: the driver circuit consists of a MOSFET combined with resistors and diodes.**

MULTI-CHANNEL DRIVERS

Device	Description	SPI	Output Current	Current Limit Min (A)	$R_{DS(on)}$ @ 25°C	Vs_op (V)	Vs Peak Transient (V)	Sleep Mode	On-Chip Flyback Diode	Active Output Clamp	Parallel Inputs	Fault Reporting	Undervoltage Lockout	Open Load Detect	Current Limit	Overvoltage	Overtemperature	Low Duty Cycle Overcurrent Mode	Package(s)
NCV1413	Darlington Transistor Array	–	500 mA	–	–	30	50		✓		✓								SOIC-16
NCV7608	Configurable 8-Fold High/ Low-Side Driver	16-bit	350 mA	0.8	1.2	3 - 28	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		SOIC-28, SSOP-36 EP
NCV7702B	Dual H-Bridge Driver	–	–	1	–	7 - 16	60	✓	✓		✓	✓			✓	✓	✓	✓	SOIC-24
NCV7721	Dual Half-Bridge Driver	–	500mA	1	0.8	5.5 - 32	40	✓	✓		✓	✓	✓	✓	✓	✓	✓		SOIC-14
NCV7703C	Triple Half-Bridge Driver	16-bit	499 mA	1	0.8	5.5 - 33	40	✓	✓		✓	✓	✓	✓	✓	✓	✓		SOIC-14
NCV7708F	Dual Hex High/Low-Side Driver	16-bit	500 mA	1	0.8	4.5 - 28	40	✓	✓	✓		✓	✓	✓	✓	✓	✓		SSOP-24
NCV7718	Hex Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 28	40	✓	✓			✓	✓	✓	✓	✓	✓		SSOP-24
NCV7719	Octal Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 28	40	✓	✓			✓	✓	✓	✓	✓	✓		SSOP-24 EP
NCV7720	Deca Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 28	40	✓	✓			✓	✓	✓	✓	✓	✓		SSOP-24 EP
NCV7726	12x Half-Bridge Driver	16-bit		1.1	0.9	4.5 - 32	40	✓	✓		✓	✓	✓	✓	✓	✓	✓		SSOP-24 EP
NCV7240	8x Low-Side Driver	16-bit	300 mA	0.6	1.5	(VDD) 4.5 - 5.5	(VDD) 5.5	✓	✓	✓	✓	✓		✓	✓		✓		SSOP-24
NCV7728	Hex Half-Bridge Driver	16-bit	550 mA	0.8	1	4.5 - 28	40	✓	✓			✓	✓	✓	✓	✓	✓		SSOP-24
NCV7750	4x Low Side Driver	16-bit	300 mA	0.6	1.5	(VDD) 4.5 - 5.5	(VDD) 5.5	✓	✓	✓	✓	✓		✓	✓		✓		SSOP-24
NCV7751	12x Low-Side Driver	16/24/ 32-bit	300 mA	0.6	1.3	(VDD) 4.5 - 5.5	(VDD) 5.5	✓	✓	✓	✓	✓		✓	✓		✓		SSOP-24 EP
NCV7754	8x Low-Side Driver	16-bit	300 mA	0.5	0.8	(VDD) 4.5 - 5.5	(VDD) 5.5	✓	✓	✓	✓	✓		✓	✓		✓		SSOP-24

DOOR DRIVERS

	Device	SPI	Safe Lock	Door Locking	Mirror Fold	Mirror X-Axis	Mirror Y-Axis	ECM	Morror Defroster	LED Blinker	LED Floor Step Light (LED/ Bulb)	Safety Light (LED/ Bulb)	Protection (Over Voltage & Under Voltage)	Protection (Over Current, Under Load & Thermal)	Current Sense & PWM	Package(s)
Front Door/ Mirror	NCV7707	24-bit	0.15, 0.3 Ω	0.15 Ω	0.3 Ω	1.6 Ω	1.6 Ω	DAC + LS	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	1.4 Ω	✓	✓	✓	SSOP-36
Back Door Lock	NCV7710	24-bit	–	0.15 Ω	–	–	–	–	–	–	–	–	✓	✓	✓	SSOP-36
Mirror Module	NCV7704	24-bit	–	–	–	1.6 Ω	1.6 Ω	–	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	–	✓	✓	✓	SSOP-36
	NCV7705	24-bit	–	–	0.3 Ω	1.6 Ω	1.6 Ω	–	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	0.6/1.4 Ω	✓	✓	✓	SSOP-36
	NCV7714	24-bit	–	–	–	1.6 Ω	1.6 Ω	DAC + LS	0.1 Ω	1.4 Ω	0.3, 1.4 Ω	–	✓	✓	✓	SSOP-36

PRE-DRIVERS

Device	Description	Output Current	$R_{DS(ON)}$ @ 25°C	Sleep Mode	On-Chip Flyback Diode	Parallel Inputs	SPI	Fault Reporting	Undervoltage Lockout	Open Load Detect	Current Limit	Peak Transient (V)	Package(s)
NCV7513B	Hex Low-Side MOSFET Driver	3.6 mA	1.8 kΩ	✓		✓	✓	✓	✓	✓	✓	6.5	LQFP-32
NCV7517B	Hex Low-Side MOSFET Driver	18 mA	350 Ω	✓		✓	✓	✓	✓	✓	✓	6.5	LQFP-32
NCV7518	Hex Low-Side MOSFET Driver	18 mA	350 Ω	✓		✓	✓	✓	✓	✓	✓	5.8	QFN-32
NCV33152	High Speed Dual MOSFET Driver	1.5 A	–	✓	✓	✓						20	SOIC-8
NCV5104	Single Input High and Low Side Power MOSFET Driver	250/500 mA	30/10	✓					✓				SOIC-8
FAN3121	Single 9A High Speed Low Side Gate Driver	7.1/9.7 A							✓			20	SOIC-8
FAN3122	Single 9A High Speed Low Side Gate Driver	7.1/9.7 A							✓			20	SOIC-8
FAN3122TM1X	Single 9A High Speed Low Side Gate Driver with Exposed Pad	7.1/9.7 A							✓			20	SOIC-8-EP
FAN3213	Dual 4A High Speed Low Side Gate Driver	2.8/4.3 A							✓			20	SOIC-8
FAN3214	Dual 4A High Speed Low Side Gate Driver	2.8/4.3 A							✓			20	SOIC-8
FAN3223	Dual 4A High Speed Low Side Gate Driver	2.8/4.3 A							✓			20	SOIC-8
FAN3224	Dual 4A High Speed Low Side Gate Driver	2.8/4.3 A							✓			20	SOIC-8
FAN3224T(U)M1X	Dual 4A High Speed Low Side Gate Driver with Exposed Pad	2.8/4.3 A							✓			20	SOIC-8-EP
FAN3225	Dual 4A High Speed Low Side Gate Driver	2.8/4.3 A							✓			20	SOIC-8
FAN3226	Dual 2A High Speed Low Side Gate Driver	1.6/2.4 A							✓			20	SOIC-8
FAN3227	Dual 2A High Speed Low Side Gate Driver	1.6/2.4 A							✓			20	SOIC-8
FAN3228	Dual 2A High Speed Low Side Gate Driver	1.6/2.4 A							✓			20	SOIC-8
FAN3229	Dual 2A High Speed Low Side Gate Driver	1.6/2.4 A							✓			20	SOIC-8
FAN3216	Dual 2A High Speed Low Side Gate Driver	1.6/2.4 A							✓			20	SOIC-8
FAN3217	Dual 2A High Speed Low Side Gate Driver	1.6/2.4 A							✓			20	SOIC-8
FAN7080	Half Bridge 600V/600mA Gate Driver	300/600 mA							✓			600	SOIC-8
FAN7081	High Side 600V/500mA Gate Driver	250/500 mA							✓			600	SOIC-8
FAN7083	High Side 600V/400mA Gate Driver with Enable Pin	200/400 mA							✓			600	SOIC-8
FAN7085	High Side 300V/450mA Gate Driver with Cboot Recharge Path and Enable Pin	450 mA							✓			300	SOIC-8
FAN7171	High Side High Current 600V/4A Gate Driver	4 A							✓			600	SOIC-8
FAN7191	High Side and Low Side High Current 600V/4.5A Gate Driver	4.5 A							✓			600	SOIC-8
FAD7191M1X	High Side and Low Side High Current 600V/4.5A Gate Driver with Separate grounds and Enable pin	4.5 A							✓			600	SOIC-14
NCV5700	High Current IGBT Gate Driver - Standalone Full Featured	4/6 A						✓	✓			40	SOIC-16
NCV5701A	High Current IGBT Gate Driver - Standalone Active Miller Clamp	4/6 A						✓	✓			40	SOIC-8
NCV5701B	High Current IGBT Gate Driver - Standalone Negative Bias Supply	4/6 A						✓	✓			40	SOIC-8
NCV5701C	High Current IGBT Gate Driver - Standalone Separate High/Low Side Output	4/6 A						✓	✓			40	SOIC-8
FAD6263M1X	Half Bridge 600V/3.3A Gate Driver with shutdown pin, separate pull up and pull down outputs	3.3/3.3 A							✓			600	SOIC-16

LIN TRANSCEIVERS

Device	Description	Bus Speed (Baud)	ISO 9141	LIN 2.0/2.1/2.2	J2602	Sleep Mode Current (μA)	ESD Protection IEC 61000-4-2 (LIN pin)	Package(s)
AMIS-30600	LIN Transceiver	20 k	✓	✓	✓	55	6 kV	SOIC-8
NCV7321	LIN Transceiver	20 k	✓	✓	✓	10	>12 kV	SOIC-8 , DFN-8
NCV7424	Quad LIN Transceiver	20 k	✓	✓	✓	30	>12 kV	TSSOP-16
NCV7329	LIN Transceiver	20 k	✓	✓	✓	10	>12 kV	SOIC-8 , DFN-8
NCV7327*	LIN Transceiver	20 k	✓	✓	✓	10	>12 kV	SOIC-8 , DFN-8
NCV7420	LIN Transceiver with Voltage Regulator (50 mA, 3.3 or 5.0 V)	20 k	✓	✓	✓	20	>12 kV	SOIC-14
NCV7425	LIN Transceiver with Voltage Regulator (150 mA, 3.3 or 5.0 V)	20 k	✓	✓	✓	20	>12 kV	SOIC-16W EP
NCV7428	LIN (low slope, normal slope) Transceiver with Voltage Regulator (70 mA, 3.3 or 5.0 V)	20 k	✓	✓	✓	25	>12 kV	SOIC-8
NCV7429	System Basis Chip with LIN, LS and HS Switches	20k	✓	✓	✓	30	>6 kV	TSSOP−20 EP

*** No time out for low speed communication.**

CAN TRANSCEIVERS

Device	Description	Standard	Sleepmode Current Max (μA)	Bus Speed Max	ESD Protection IEC 61000-4-2 (CAN pins)	Package(s)
NCV7349	High Speed, Low Power CAN Transceiver**	ISO11898-5	15	1 Mbps	>12 kV	SOIC-8
NCV7342	High Speed, Low Power CAN Transceiver	ISO11898-5	15	1 Mbps	>12 kV	SOIC-8, DFN-8
NCV7344	High Speed Low Power CAN, CAN FD Transceiver	ISO11898-2:2016	15	5 Mbps	>8 kV	SOIC-8, DFN-8
NCV7340	High Speed, Low Power CAN Transceiver	ISO11898-5	15	1 Mbps	>12 kV	SOIC-8
AMIS-42665	High Speed, Low Power CAN Transceiver	ISO11898-5	15	1 Mbps	4 kV (HBM)	SOIC-8
NCV7341	High Speed, Low Power CAN Transceiver	ISO11898-5	35	1 Mbps	8 kV	SOIC-14
NCV7441	Dual High Speed, Low Power CAN Transceiver	ISO11898-5	30	1 Mbps	8 kV	SOIC-14
NCV7446	Two channel High Speed, Low Power CAN, CAN FD Transceiver	ISO11898-2:2016	30	5 Mbps	8 kV	DFN-14
AMIS-42700	Dual High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	4 kV	SOIC-20
NCV7351	High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	>12 kV	SOIC-8
NCV7351F	High Speed CAN, CANFD Transceiver	ISO11898-2:2016	N/A*	2 Mbps	>12 kV	SOIC-8
NCV7357	High Speed Low PowerCAN, CAN FD Transceiver	ISO11898-2:2016	15	5 Mbps	>8 kV	SOIC-8, DFN-8
AMIS-30660	High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	4 kV	SOIC-8
AMIS-30663	High Speed CAN Transceiver	ISO11898-2	N/A*	1 Mbps	4 kV	SOIC-8
AMIS-41682	Low Speed Fault Tolerant CAN Transceiver	ISO11898-3	60	250 kpbs	6 kV (HBM)	SOIC-14
AMIS-41683	Low Speed Fault Tolerant CAN Transceiver	ISO11898-3	60	250 kpbs	6 kV (HBM)	SOIC-14
NCV7356	Single Wire CAN Transceiver	J2411	60	40 kpbs	4 kV (HBM)	SOIC-14

*** Sleepmode not featured/implemented. **Meets VeLIO test requirements.**

FlexRay™ TRANSCEIVERS

Product	Description	Bus Speed (Baud)	FlexRay Standard	Host Interface	ESD Protection IEC61000-4-2 (CAN pins)	Package(s)
NCV7381A	Clamp-30 FlexRay Transceiver	10 M	v3.0.1.	ERRN pin	>10 kV	SSOP-16
NCV7381B	Clamp-30 FlexRay Transceiver	10 M	v3.0.1.	ERRN pin	>10 kV	SSOP-16
NCV7381C*	Clamp-30 FlexRay Transceiver	10 M	v3.0.1.	ERRN pin	>10 kV	SSOP-16
NCV7383	Clamp-15 FlexRay Transceiver	10 M	v3.0.1.	SPI	> 10 kV	TSSOP-14

***High Temp class0.**

SYSTEM BASIS CHIPS

Device	Description	Data Transmission Standard	I_O Max (mA)	Number of Drivers	Number of Transceivers	V_{CC} Min (mA)	V_{CC} Max (mA)	Package(s)
NCV7420	System Basis Chip with LIN and Voltage Regulator (WAKE, INH)	LIN	50	0	1	5	26	SOIC-14
NCV7425	System Basis Chip with LIN and Voltage Regulator (WAKE, INH, RSTN)	LIN	150	0	1	5	28	SOIC-16W EP
NCV7428	LIN (low slope, normal slope) Transceiver with Voltage Regulator (70 mA, 3.3 or 5.0 V)	LIN	70	0	1	3.234, 4.9	3.366, 5.1	SOIC-8, DFN-8
NCV7429	System Basis Chip with LIN, LS and HS Switches	LIN	150	5	1	4.9	5.1	TSSOP−20 EP
NCV7462	System Basis Chip with LIN, CAN, 2 Voltage Regulators, and HS/LS Drivers	LIN; CAN	250	7	2	5	28	SSOP-36 EP
NCV7471	System Basis Chip with Dual LIN, CAN, Voltage Regulator, and Buck-Boost DC-DC	LIN; CAN	500	0	3	2.5	28	SSOP-36 EP
NCV7441	Dual High Speed, Low Power CAN Transceiver	CAN	NA	0	2	NA	NA	SOIC-14
NCV7450	CAN + LDO +HS Driver System Basis Chip	CAN	NA	1	1	4.75	5.25	TSSOP−16 EP
NCV7446	Two channel High Speed, Low Power CAN, CAN FD Transceiver	CAN/CANFD	NA	0	2	NA	NA	DFN-14
AMIS-42700/70	Dual High Speed CAN Transceiver	CAN	NA	0	2	NA	NA	SOIC-20

COMPARATORS

Device	Channels	V_S Min (V)	V_S Max (V)	I_Q/Channel (µA)	$t_{RESP\ (H-L)}$ (µs)	V_{OS} Max (mV)	Input Range (V)	I_{OUT} (mA)	Output Type	Features	Package(s)
NCV2393	2	2.7	16	6	0.8	–	Vee to Vdd-1.5	20	Open Drain	Ultra-Low I_Q	SOIC-8
NCV2200	1	0.85	6	10	0.5	5	Vee to Vdd	70	Complementary	Low I_Q	SOT-23-5, SC-70
NCV2202	1	0.85	6	10	0.5	5	Vee to Vdd	70	Open Drain	Low I_Q	SOT-23-5, SC-70
NCV331	1	2.7	5	40	0.6	9	Vee to Vdd-0.7	23	Open Drain	Low I_Q, Low Cost	SOT-23-5
NCV2903	2	2	36	200	1.5	7	Vee to Vdd-1.5	16	Open Collector	36 V, Low Cost	SOIC-8, Micro8
NCV2901	4	3	36	200	1.3	7	Vee to Vdd-1.5	16	Open Collector	36 V, Low Cost	SOIC-14, TSSOP-14, Bare Die
NCV391	1	2	36	500	0.5	9	Vee to Vdd-1.5	16	Open Collector	36 V, Fast t_{RESP}	SOT-23-5
TL331V	1	2	36	500	0.35	9	Vee to Vdd-1.5	16	Open Collector	36 V, Fast t_{RESP}	TSOP-5 / SOT-23-5
NCV2250	1	1.8	5.5	150	74	6	Vee to Vdd	50	Push Pull	Fast t_{RESP}	SOT-23-5, SC-70
NCV2252	1	1.8	5.5	150	74	6	Vee to Vdd	50	Open Collector	Fast t_{RESP}	SOT-23-5, SC-70

OPERATIONAL AMPLIFIERS

Device	Channels	V_S Range (V)	I_Q/ Channel (mA)	GBW (MHz)	Slew Rate (V/us)	V_{OS} Max (mV)	V_{OS} Drift (µV/°C)	I_B (nA)	CMRR (dB)	e_N (nV/√Hz)	Rail to Rail	Features	Package(s)
NCV2333	2	1.8 - 5.5	0.21	0.27	0.1	0.03	0.04	60	123	62	Input/ Output	High Accuracy	Micro8, SOIC-8, UDFN-8
NCV333A	1	1.8 - 5.5	0.21	0.35	0.1	0.03	0.03	60	123	62	Input/ Output	High Accuracy	SC-88A / SC-70-5 TSOP-5 / SOT-23-5
NCV4333	4	1.8 -5.5	0.21	0.35	0.15	0.03	0.095	60	123	62	Input/ Output	High Accuracy	SOIC-14
NCV20091/2/4	1,2,4	1.8 - 5.5	0.02	0.35	0.15	3	1	0.001	80	30	Input/ Output	Low I_Q & Rail-Rail Input/ Output	Micro8, SOIC-8, TSSOP-8
NCV5652	2	3.3 - 13.2	6	0.35	–	5	2	200	80	–	–	500 mA Output Current	UDFN-12
NCV2002	1	0.9 - 7.0	0.48	0.9	1.2	6	8	0.01	82	100	Input/ Output	Shutdown, Ultra-Low V_S	TSOP-6
NCV2902	4	3.0 - 32.0	1.2	1	–	7	7	90	70	–	–	Low Cost	SOIC-14, TSSOP-14
NCV2904	2	3.0 - 32.0	0.75	1	–	7	7	45	70	–	–	Low Cost	SOIC-8, Micro8
NCV7101	1	1.8 - 10.0	1	1	1.2	9	8	0.001	60	140	Input/ Output	Ultra-Low I_B	SOT-23-5
NCV20081/2/4	1,2,4	1.8 - 5.5	0.05	1.2	1.2	3	1	0.001	80	30	Input/ Output	Low I_Q & Rail-Rail Input/ Output	Micro8, SOIC-8, TSSOP-8
NCV33172	2, 4	3.0 - 44.0	0.18	1.8	2.1	6.5	10	20	90	32	–	Low I_Q & 44 V V_S range	SOIC-8, TSSOP-14
NCV21911	1	4 - 36	0.6	2	1.6	0.025	0.085	3.5	120	22	Output	Low Noise Zero drift	TSOP-5, SOT23-5
NCV33202/4	2, 4	1.8 - 12.0	0.9	2.2	1	6	2	80	90	20	Input/ Output	High Output Current	SOIC-8, Micro8, SOIC-14, TSSOP-14
NCV20061/2/4	1,2,4	1.8 - 5.5	0.14	3	0.45	3	1	0.001	80	20	Input/ Output	Low I_Q & Rail-Rail Input/ Output	Micro8, SOIC-8, TSSOP-8
NCV20071/2/4	1,2, 4	2.7 - 36.0	0.41	3	2.7	3	2	0.005	111	20	Output	36 V Rail-to-rail Output	SOIC-8, Micro8, TSSOP-8, SOIC-14, TSSOP-14
NCV952	2	2.7 - 26.0	0.9	3	1	8	2	35	80	25	Input/ Output	26 V Rail-to-rail Input/ Output	TSSOP-8
NCV33072/4	2, 4	3.0 - 44.0	1.6	4.5	10	3	10	100	97	32	–	44 V V_S Range	SOIC-8, TSSOP-14
NCV2003/32/34	1, 2, 4	1.7 - 5.5	0.3	7	8	4	2	0.001	70	20	Output	High GBW & Slew Rate	SOT-23-5, SOIC-8, Micro8, TSSOP-8, SOIC-14
NCV833	2	10.0 - 36.0	2	15	7	5	2	300	100	4.5	–	44 V V_S Range, Low eN	SOIC-8
NCV33078/9	2, 4	5.0 - 18.0	2.1	16	7	2	2	300	100	4.5	–	Wide GBW, Low V_{OS} & eN	SOIC-8, SOIC-14
NCV33272/4A	2, 4	3.0 - 36.0	2.2	24	10	1	2	300	100	18	–	Wide GBW, V_S range	SOIC-8, SOIC-14, TSSOP-14

CURRENT SENSE AMPLIFIERS

Device	Channels	Gain (V/V)	Gain Error Max (%)	V_S Min (V)	V_S Max (V)	V_{CM} (V)	I_Q Typ (mA)	Bandwidth Typ (-3dB)	V_{OS} Max (mV)	V_{OS} Drift Max (µV/°C)	Operating Temp Range (°C)	CMRR Typ (dB)	Package(s)
NCV210R	1	200	±1.5	2.2	26	-0.3 to 26	0.04	0.04	±0.05	1.5	-40 to 125	125	SC-88-6, SC-70-6, SOT-363-6, UQFN-10
NCV211R	1	500	±1.5	2.2	26	-0.3 to 26	0.04	0.025	±0.05	1.5	-40 to 125	125	SC-88-6, SC-70-6, SOT-363-6
NCV213R	1	50	±1.5	2.2	26	-0.3 to 26	0.04	0.09	±0.15	1.5	-40 to 125	120	SC-88-6, SC-70-6, SOT-363-6, UQFN-10
NCV214R	1	100	±1.5	2.2	26	-0.3 to 26	0.04	0.06	±0.09	1.5	-40 to 125	125	SC-88-6, SC-70-6, SOT-363-6, UQFN-10

SWITCHING REGULATORS & CONTROLLERS

Device	Buck	Boost	Controller	Synchrobus	Output Current Max	Osc Freq	Output Voltage	Voltage Tolerance	Max Load Dump Voltage (V)	Sleepmode Current (Typ)	Low Iq Mode Typ Operating	Enable	Reset	Delay	Sync In	Sync Out	Power Good	TSD	UVLO	Short Circuit	Current Limit	Package(s)
NCV6356	✓			✓	5 A	Up to 2.4 MHz	Prog, 0.6 V to 1.4 V	±2 %	6	5 µA	60 µA	✓					✓	✓	✓	✓	✓	DFN-14*
NCV6357	✓			✓	5 A	Up to 2.4 MHz	Prog, 0.6 V to 3.3 V	±2 %	6	5 µA	60 µA	✓					✓	✓	✓	✓	✓	DFN-14*
NCV6323	✓			✓	2 A	3 MHz	Adj	±1 %	6	–	–	✓					✓	✓	✓	✓	✓	DFN-8*
NCV6324	✓			✓	2 A	Up to 3 MHz	Adj	±1 %	6	–	–	✓					✓	✓	✓	✓	✓	DFN-8*
NCV6922	PMU			✓	2 A	Up to 3 MHz	Prog, 0.6 V to 3.3 V	±2 %	6	7 µA	82 µA	✓		✓			✓	✓	✓	✓	✓	QFN-20*
NCV3163	✓	✓			3.4 A	Up to 300 kHz	Adj	±2 %	40	7 mA	–							✓	✓	✓	✓	DFN-18, SOIC-16W EP
NCV33163	✓	✓			3.4 A	Up to 250 kHz	Adj	±2 %	40	7 mA	–							✓	✓	✓	✓	SOIC-16W, PDIP-16
NCV891330	✓				3 A	2 MHz	5 V, 4 V, 3.8 V or 3.3 V	±2 %	45	–	30 µA	✓	✓					✓	✓	✓	✓	SOIC-8 EP
NCV891130	✓				1 A	2 MHz	5 V, 4 V or 3.3 V	±2 %	45	–	30 µA	✓	✓					✓	✓	✓	✓	SOIC-8 EP
NCV890200	✓				2 A	2 MHz	Adj	±1.75 %	40	2 µA	–	✓						✓	✓	✓	✓	SOIC-8 EP
NCV890201	✓				2 A	2 MHz	Adj	±1.75 %	40	2 µA	–	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890230	✓				2 A	2 MHz	Adj	±1.75 %	45	2 µA	–	✓						✓	✓	✓	✓	SOIC-8 EP
NCV890231	✓				2 A	2 MHz	Adj	±1.75 %	45	2 µA	–	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890204	✓				2 A	2 MHz	Adj	±1.75 %	40	2 µA	–	✓	✓	✓				✓	✓	✓	✓	DFN-10*
NCV8855	PMU		✓	✓	2 A / Adj	170 kHz	Adj	±2 %	18	0.1 µA	–	✓			✓			✓	✓	✓	✓	QFN-40
NCV33063AV	✓	✓			1.5 A	100 kHz	–	±2 %	40	7 mA	–									✓	✓	SOIC-8
NCV3063	✓	✓			1.5 A	Up to 200 kHz	Adj	–	40	7 mA	–							✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3064	✓	✓			1.5 A	Up to 300 kHz	Adj	–	40	85 µA	–	✓						✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3065	✓	✓			1.5 A	Up to 250 kHz	40	–	40	7 mA	–							✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV3066	✓	✓			1.5 A	Up to 300 kHz	Adj	–	40	85 µA	–	✓						✓	✓	✓	✓	DFN-8, SOIC-8, PDIP-8
NCV5171		✓			1.5 A	Up to 600 kHz	–	–	35	50 µA	–							✓	✓	✓	✓	SOIC-8
NCV5173		✓			1.5 A	Up to 600 kHz	–	–	35	50 µA	–							✓	✓	✓	✓	SOIC-8
CS51414	✓				1 A	520 kHz	Adj	±2 %	40	1 µA	–	✓						✓		✓	✓	SOIC-8
NCV2575	✓				1 A	52 kHz	Adj, 5 V, 12 V	–	40	80 µA	–							✓	✓	✓	✓	D2PAK
NCV51411	✓				1 A	260 kHz	Adj	±2 %	40	1 µA	–	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8843	✓				1 A	340 kHz	Adj	±2 %	40	1 µA	–	✓			✓			✓		✓	✓	SOIC-8, SOIC-16W, DFN-18
NCV8881	PMU				1 A	500 kHz (Adj)	Adj	±2 %	40	1 µA	–	✓	✓	✓	✓			✓	✓		✓	SOIC-16W EP
NCV890100	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	–	✓			✓	✓		✓	✓	✓	✓	SOIC-8 EP, DFN-8*
NCV890101	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	–	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890130	✓				1 A	2 MHz	Adj	±2 %	45	1 µA	–	✓						✓	✓	✓	✓	SOIC-8 EP, DFN-8*
NCV890131	✓				1 A	2 MHz	Adj	±2 %	45	1 µA	–	✓			✓	✓		✓	✓	✓	✓	DFN-10*
NCV890103	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	–	✓	✓	✓	✓		✓	✓	✓	✓	✓	DFN-10*
NCV890104	✓				1 A	2 MHz	Adj	±2 %	40	1 µA	–	✓	✓	✓				✓	✓	✓	✓	DFN-10*
NCV896530	Dual			✓	1 A	2.25 MHz	Adj	±2 %	6	1 µA	–	✓					✓	✓	✓		✓	DFN-10*
NCV2574	✓				0.5 A	52 kHz	Adj	–	40	80 µA	–							✓	✓	✓	✓	SOIC-16W
NCV8851-1	✓		✓	✓	Adj	500 kHz (Adj)	Adj	±2 %	40	1 µA	–	✓			✓			✓	✓		✓	TSSOP-20
NCV8853	✓		✓		Adj	340 kHz (Adj)	Adj	±2 %	44	2.5 µA	–	✓			✓		✓	✓	✓	✓	✓	SOIC-8
NCV8852	✓		✓		Adj	Up to 500 kHz (Adj)	Adj	±2 %	44	2.5 µA	–	✓			✓				✓	✓	✓	SOIC-8
NCV887100		✓	✓		Adj	170 kHz (Adj)	Adj	±2 %	45	2 µA	–	✓			✓			✓	✓	✓	✓	SOIC-8

*** Wettable flank DFN/QFN: visual inspection is sufficient to guarantee proper soldering - no X-ray inspection needed.**

SWITCHING REGULATORS & CONTROLLERS

Device	Buck	Boost	Controller	Synchrobus	Output Current Max	Osc Freq	Output Voltage	Voltage Tolerance	Max Load Dump Voltage (V)	Sleepmode Current (Typ)	Low Iq Mode Typ Operating	Enable	Reset	Delay	Sync In	Sync Out	Power Good	TSD	UVLO	Short Circuit	Current Limit	Package(s)
NCV887101		✓	✓		Adj	1 MHz (Adj)	Adj	±2 %	45	2 μA	–	✓			✓			✓	✓	✓	✓	SOIC-8
NCV887102		✓	✓		Adj	1 MHz (Adj)	Adj	±2 %	45	2 μA	–	✓			✓			✓	✓		✓	SOIC-8
NCV887103		✓	✓		Adj	340 kHz (Adj)	Adj	±2 %	45	2 μA	–	✓			✓			✓	✓	✓	✓	SOIC-8
NCV887104		✓	✓		Adj	340 kHz (Adj)	Adj	±2 %	45	2 μA	–	✓			✓			✓	✓	✓	✓	SOIC-8
NCV887000		✓	✓		Adj	50 kHz	Adj	±2 %	45	2 μA	–	✓			✓			✓	✓	✓	✓	SOIC-8
NCV887001		✓	✓		Adj	100 kHz	Adj	±2 %	45	2 μA	–	✓			✓			✓	✓	✓	✓	SOIC-8
NCV887200		✓	✓		Adj	675 kHz	Adj	±2 %	45	2 μA		✓			✓			✓	✓	✓	✓	SOIC-8
NCV887300		✓	✓		Adj	1 MHz	Adj	±3 %	45	2 μA	–	✓			✓			✓	✓		✓	SOIC-8
NCV887301		✓	✓		Adj	400 kHz	Adj	±3 %	45	2 μA	–	✓			✓			✓	✓		✓	SOIC-8
NCV887302		✓	✓		Adj	400 kHz	Adj	±3 %	45	2 μA	–	✓			✓			✓	✓		✓	SOIC-8
NCV8873		✓	✓		Adj	1 MHz	Adj	±2 %	45	2 μA	–	✓			✓			✓	✓		✓	SOIC-8
NCV887600		✓	✓		Adj	170 kHz (Adj)	6.8 V	±2 %	45	–	12 μA							✓	✓	✓	✓	SOIC-8
NCV887601		✓	✓		Adj	170 kHz (Adj)	6.8 V	±2 %	45	–	12 μA							✓	✓	✓	✓	SOIC-8
NCV887700		✓	✓		Adj	170 kHz (Adj)	6.8 V	±2 %	45	–	12 μA	✓						✓	✓	✓	✓	SOIC-8
NCV887701		✓	✓		Adj	170 kHz (Adj)	6.8 V	±2 %	45	–	12 μA	✓						✓	✓	✓	✓	SOIC-8
NCV887711		✓	✓		Adj	170 kHz (Adj)	8.55 V	±2 %	45	–	12 μA	✓						✓	✓	✓	✓	SOIC-8
NCV887720		✓	✓		Adj	170 kHz (Adj)	10 V	±2 %	45	–	12 μA	✓						✓	✓	✓	✓	SOIC-8
NCV887740		✓	✓		Adj	170 kHz (Adj)	12 V	±2 %	45	–	12 μA	✓						✓	✓	✓	✓	SOIC-8
NCV887801		✓	✓		Adj	450 kHz	6.8 V	±2 %	45	12 μA	–	✓						✓	✓	✓	✓	SOIC-8
NCV898031		✓	✓		Adj	2 MHz	Adj	±2 %	45	2 μA	–	✓						✓	✓	✓	✓	SOIC-8
NCV898032		✓	✓		Adj	2 MHz	Adj	±2 %	45	2 μA	–	✓						✓	✓	✓	✓	SOIC-8
NCV3011	✓		✓	✓	–	400 kHz	–	±1 %	40	2.5 mA	–	✓			✓	✓	✓	✓	✓	✓	✓	TSSOP-14
NCV3012	✓		✓	✓	–	Up to 200 kHz	–	±1 %	40	2.5 mA	–	✓			✓	✓	✓	✓	✓	✓	✓	TSSOP-14
NCV3020	✓		✓	✓	–	300/600 kHz	–	±1.5 %	40	2.5 mA	–						✓	✓	✓	✓	✓	SOIC-8
NCV3030	✓		✓	✓	–	1.2/2.4 MHz	–	±1.5 %	40	2.5 mA	–						✓	✓	✓	✓	✓	SOIC-8
NCV3843B	✓	✓	✓		–	52 kHz	–	–	30	12 mA	–								✓		✓	SOIC-14, SOIC-8
NCV494	✓	✓	✓		–	200 kHz	–	±5 %	42	–	–								✓	✓	✓	SOIC-16
NCV8878		✓	✓		Adj	450 kHz	6.8 V	±2 %	45	12 μA	–	✓	✓	✓				✓	✓	✓	✓	SOIC-8
NCV890203	✓				2 A	2 MHz	Adj	±1.75 %	40	2 μA		✓	✓	✓				✓	✓	✓	✓	DFN-10*
NCV896530	PMU			✓	2*0.8 A	2.1 MHz	Adj	±2 %	6	1 μA	–	✓			✓		✓	✓	✓		✓	DFN-10*
NCV97310	PMU			✓	3.0 A	2 MHz	Fixed, Adj		45	6 μA	–	✓	✓	✓			✓	✓	✓	✓	✓	QFN-32*
NCV97310	PMU			✓	3.0 A	2 MHz (Adj)	5 V or 3.3 V + 2*Adj	±2 %	45	8 μA	30 μA	✓	✓	✓			✓	✓	✓	✓	✓	QFN-32*
NCV97311	PMU			✓	3.0 A	2 MHz (Adj)	5 V or 3.3 V + 2*Adj	±2 %	45	8 μA	30 μA	✓	✓	✓			✓	✓	✓	✓	✓	QFN-32*
NCV8872		✓	✓		Adj	675 kHz	Adj	±2 %	40	8 μA		✓		✓	✓			✓	✓	✓	✓	SOIC-8
NCV890430	✓			✓	0.6 A	2 MHz	2.5 V, 3.3 V, 5 V	±2 %	45	5 μA	–	✓	✓		✓			✓	✓	✓	✓	DFN-8*
NCV891234	✓				2.0 A	2 MHz	3.3 V, 5 V	±2 %	45	9 μA	40 μA	✓	✓		✓	✓	✓	✓	✓	✓	✓	DFN-12*
NCV891334	✓				3.0 A	2 MHz	3.3 V, 5 V	±2 %	45	9 μA	40 μA	✓	✓		✓	✓	✓	✓	✓	✓	✓	DFN-12*
NCV881930	✓		✓	✓	Adj	410 kHz (Adj)	3.3 V or 5 V	±2 %	45	6 μA	30 μA	✓	✓		✓	✓	✓	✓	✓	✓	✓	QFN-24*
NCV891930	✓		✓	✓	Adj	2 MHz (Adj)	3.3 V, 3.65 V, 4 V or 5 V	±2 %	45	6 μA	30 μA	✓	✓		✓	✓	✓	✓	✓	✓	✓	QFN-24*
NCV97200**	✓	✓			3.0 A	2 MHZ	3.3 V + 5 V	±2 %	40	3 μA	–	✓	✓	✓	✓	✓		✓	✓	✓	✓	QFN-20*
NCV97400**	PMU	✓		✓	3.0 A	2 MHZ	3.3 V + 2*Adj + 5 V	±2 %	40	5 μA	–	✓	✓	✓	✓	✓		✓	✓	✓	✓	QFN-20*

*** Wettable flank DFN/QFN: visual inspection is sufficient to guarantee proper soldering - no X-ray inspection needed.**

**** Device is ASIL B.**

SINGLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current	Dropout (Max)	Sleepmode Current Max	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset (✓✓ = Adjustable)	Delay	Early Warning Flag/Monitor	Watchdog	Wakeup	Current Limit	Overvoltage	Overtemperature	Peak Transient (V)	Package(s)
NCV4294C	3.3, 5	±4	30 mA	0.25 V	–	170 µA (100 µA)							✓		✓	60	TSOP-5
NCV4295C	3.3, 5	±4	30 mA	0.25 V	–	170 µA (100 µA)		✓					✓		✓	60	TSOP-5
NCV4296-2C	3.3, 5	±4	30 mA	0.25 V	1 µA	170 µA (100 µA)	✓						✓		✓	60	TSOP-5
NCV8715	1.2, 1.5, 1.8, 2.5, 3.0, 3.3, 5	±2	50 mA	0.35 V	–	3.4 µA (100 µA)							✓		✓	24	SC-70, XDFN-6
NCV8716	1.2, 1.5, 1.8, 2.5, 3.0, 3.3, 5	±2	80 mA	0.5 V	–	3.4 µA (100 µA)							✓		✓	24	WDFN-6
NCV562	3.3	±2	80 mA	0.25 V	1 µA	2.5 µA (100 µA)	✓						✓		✓	6	SC-70
NCV563	1.5, 3.3	±2	80 mA	0.25 V	–	2.5 µA (100 µA)							✓		✓	6	SC-70
NCV553	5	±3	80 mA	0.8 V	–	6 µA (1 mA)							✓		✓	12	SC-82
NCV317L	Adj	±4	100 mA	1.9 V (Typ)	–	–							✓		✓	40	SOIC-8, TO-92
NCV2931	Adj, 5	±5	100 mA	0.6 V	1 mA	1 mA (10 mA)	✓						✓	✓	✓	60	SOIC-8, DPAK-3, D2PAK-3
NCV2931A	Adj, 5	±3.8	100 mA	0.6 V	1 mA	1 mA (10 mA)	✓						✓	✓	✓	60	SOIC-8, SOT-223, DPAK-3
NCV2951	Adj, 5	±2.4	100 mA	0.45 V	–	120 µA (100 µA)	✓	✓					✓		✓	32	SOIC-8
NCV2951A	Adj, 3.3, 5	±1.5	100 mA	0.45 V	–	120 µA (100 µA)	✓	✓					✓		✓	32	SOIC-8
NCV4949A	5	±2	100 mA	0.5 V	–	260 µA (300 µA)		✓	✓	✓			✓		✓	40	SOIC-8, SOIC-8 EP, SOIC-20W
NCV612	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.1, 3.3, 5	±3	100 mA	0.3 V	1 µA	90 µA (1 mA)	✓						✓		✓	6	SC-70
NCV662	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, 5	±4	100 mA	0.3 V	1 µA	6 µA (1 mA)	✓						✓		✓	6	SC-82
NCV663	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, 5	±4	100 mA	0.3 V	–	6 µA (1 mA)							✓		✓	6	SC-82
NCV78LxxA	5, 8, 12, 15, 24	±4	100 mA	1.7 V (Typ)	–	–							✓		✓	30	SOIC-8, TO-92
NCV551	1.4, 1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.1, 3.2, 3.3, 5	±3	150 mA	0.22 V	1 µA	8 µA (1 mA)	✓						✓		✓	12	TSOP-5
NCV4264-2	3.3, 5	±2	150 mA	0.5 V	–	70 µA (100 µA)							✓		✓	45	SOT-223, SOIC-8
NCV4264-2C	3.3, 5	±2	150 mA	0.5 V	–	70 µA (100 µA)							✓		✓	45	SOT-223
NCV4266	3.3, 5	±2	150 mA	0.5 V	10 µA	200 µA (1 mA)	✓						✓		✓	45	SOT-223
NCV4266-2C	3.3, 5	±2	150 mA	0.5 V	1 µA	70 µA (100 µA)	✓						✓		✓	45	SOT-223
NCV4269A	3.3, 5	±2	150 mA	0.5 V	–	250 µA (1 mA)		✓✓	✓	✓			✓		✓	60	SOIC-8, SOIC-8 EP, SOIC-14, SOIC-20W
NCV4269C	5	±2	150 mA	0.5 V	–	250 µA (1 mA)		✓✓	✓	✓			✓		✓	60	SOIC-14
NCV4279A	5	±2	150 mA	0.5 V	–	250 µA (1 mA)		✓✓	✓	✓			✓		✓	60	SOIC-8, SOIC-14
NCV4279C	5	±2	150 mA	0.5 V	–	250 µA (1 mA)		✓✓	✓	✓			✓		✓	60	SOIC-14
NCV4299	3.3, 5	±2	150 mA	0.5 V	1 µA	105 µA (1 mA)	✓	✓✓	✓	✓			✓		✓	60	SOIC-8, SOIC-14
NCV4299A	3.3, 5	±2	150 mA	0.5 V	1 µA	95 µA (100 µA)	✓	✓✓	✓	✓			✓		✓	60	SOIC-14, TSSOP-14 EP
NCV571	0.8, 0.9, 1.0, 1.2	±4	150 mA	0.45 V	1 µA	8 µA (150 mA)	✓						✓	✓	✓		TSOP-5, DFN-6
NCV8170	1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3	±2	150 mA	0.25 V	0.5 µA	0.9 µA (0 mA)	✓						✓		✓	6	XDFN-4, SOT-563
NCV8501	Adj, 2.5, 3.3, 5, 8, 10	±2	150 mA	0.6 V	30 µA	75 µA (100 µA)	✓	✓	✓	✓			✓		✓	60	SOIC-8, SOIC-16 EP
NCV8502	Adj, 2.5, 3.3, 5, 8, 10	±2	150 mA	0.6 V	–	75 µA (100 µA)		✓	✓	✓			✓		✓	60	SOIC-8, SOIC-16 EP
NCV8560	Adj., 1.3, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.5, 5	±2	150 mA	0.125 V	1 µA	180 µA (150 mA)	✓						✓		✓	6	DFN-6, TSOP-5
NCV8660B	3.3, 5	±2	150 mA	0.6 V	–	40 µA (150 mA)		✓	✓				✓		✓	40	DPAK-5, SOIC-8
NCV8664	3.3, 5	±2	150 mA	0.6 V	–	30 µA (100 µA)							✓		✓	45	SOIC-8, SOT-223, DPAK-3

**** See data sheet for details.**

SINGLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current	Dropout (Max)	Sleepmode Current Max	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset (✓✓ = Adjustable)	Delay	Early Warning Flag/Monitor	Watchdog	Wakeup	Current Limit	Overvoltage	Overtemperature	Peak Transient (V)	Package(s)
NCV8664C	3.3, 5	±2	150 mA	0.6 V	–	30 μA (100 μA)							✓		✓	45	SOT-223
NCV8665	5	±2	150 mA	0.6 V	–	40 μA (100 μA)		✓	✓				✓		✓	45	D2PAK-5, SOIC-8
NCV8667	5	±2	150 mA	0.6 V	1 μA	50 μA (150 mA)	✓	✓	✓	✓			✓		✓	45	SOIC-8, SOIC-14
NCV8668	3.3, 5	±2	150 mA	0.6 V	1 μA	44 μA (100 μA)	✓	✓	✓		✓		✓		✓	45	SOIC-8, SOIC-8 EP, SOIC-14
NCV8669	5	±2	150 mA	0.6 V	–	50 μA (150 mA)		✓	✓	✓			✓		✓	45	SOIC-14
NCV8768	5	±1.5, ±2	150 mA	0.6 V	1 μA	36 μA (100 μA)	✓	✓	✓		✓		✓		✓	45	SOIC-14
NCV8769	5	±2	150 mA	0.6 V	–	33 μA (150 mA)		✓	✓	✓			✓		✓	45	SOIC-14
NCV4263-2C	5	±2	200 mA	0.5 V	10 μA	1.3 mA (0 mA)	✓	✓✓	✓		✓		✓		✓	45	SOIC-8 EP, SOIC-14
NCV8570B	1.8, 2.5, 2.8, 3.0, 3.3	±2.5	200 mA	0.23 V	1 μA	110 μA (1 mA)	✓						✓		✓	6	DFN-6, TSOP-5
NCV8752	1.8, 2.8, 3, 3.3	±2	200 mA	0.2 V	1 μA	12 μA (0 mA)	✓	✓	✓				✓		✓	6	XDFN-6, TSOP-5
NCV8702	1.8, 2.8, 3, 3.3	±2	200 mA	0.2 V	1 μA	16 uA (0 mA)	✓						✓		✓	6	XDFN6, TSOP-5
NCV8160	1.8 – 5.14	±2	250 mA	0.16 V	1 μA	23 μA	✓						✓		✓	6	XDFN-4
NCV8163	1.20 – 5.3	±2	250 mA	0.08 V	1 μA	20 μA	✓						✓		✓	6	XDFN-4
NCV8114	0.9 – 3.6	±1	300 mA	0.27 V	1 μA	95 μA	✓						✓		✓	6	TSOP-5
NCV8130	0.8 – 2.1	±1.5	300 mA	0.175 V	1.5 μA	110 μA	✓						✓		✓	6	XDFN-6
NCV8133	0.8 – 2.1	±1.5	500 mA	0.3 V	1.5 μA	110 μA	✓						✓		✓	6	XDFN-6
NCV8720	0.8 – 2.1	±2	350 mA	0.11 V	2.0 μA	110 μA	✓						✓		✓	6	WDFN-6
NCV8161	1.8 – 5.14	±2	450 mA	0.12 V	1 μA	23 μA	✓						✓		✓	6	XDFN-4, TSOP-5
NCV8508B	3.3, 5	±3	250 mA	0.9 V	–	150 μA (150 mA)		✓	✓		✓	✓	✓		✓	60	SOIC-8 EP, D2PAK-7
NCV8518B	5	±2	250 mA	0.75 V	1 μA	150 μA (150 mA)	✓	✓	✓		✓	✓	✓		✓	45	SOIC-8 EP, SOIC-16 EP
NCV33275	3.3, 5	±2	300 mA	0.5 V	–	200 μA (0 mA)							✓		✓	13	SOT-223
NCV33375	1.8	±2	300 mA	0.5 V	4 μA	200 μA (0 mA)	✓						✓		✓	13	SOT-223
NCV8603	3.3	±2	300 mA	0.23 V	1 μA	145 μA (1 mA)	✓						✓		✓	6	TSOP-5
NCV8703	1.8, 2.8, 3, 3.3	±2	300 mA	0.3 V	2 μA	20 uA (0 mA)	✓						✓		✓	6	XDFN6, TSOP-5
NCV8674	5	±2	350 mA	0.6 V	–	38 μA (100 μA)							✓		✓	45	D2PAK-3
NCV8675	3.3, 5	±2, ±2.5	350 mA	0.6 V	–	50 μA (100 μA)		✓	✓				✓		✓	45	DPAK-5, D2PAK-5
NCV8770	5	±1.5, ±2	350 mA	0.875 V	–	28 μA (350 mA)		✓	✓				✓		✓	45	D2PAK-5, DPAK-5
NCV8772	3.3, 5	±1.5	350 mA	0.875 V	1 μA	30 μA (350 mA)	✓	✓**	✓				✓		✓	45	D2PAK-7, D2PAK-5, DPAK-5
NCV8774	3.3, 5	±1.5, ±2	350 mA	0.875 V	–	23 μA (350 mA)							✓		✓	45	DPAK-3
NCV8503	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	1 μA	350 μA (100 μA)	✓	✓✓	✓	✓			✓		✓	60	SOIC-16 EP
NCV8504	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	–	150 μA (100 μA)		✓✓	✓	✓			✓		✓	60	SOIC-16 EP
NCV8505	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	1 μA	350 μA (100 μA)	✓	✓	✓				✓		✓	60	D2PAK-7
NCV8506	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	–	150 μA (100 μA)		✓	✓				✓		✓	60	D2PAK-7
NCV4274A	2.5, 3.3, 5, 8.5	±2	400 mA	0.5 V	–	250 μA (1 mA)							✓		✓	60	SOT-223, DPAK-3, D2PAK-3
NCV4274C	3.3, 5	±2	400 mA	0.5 V	–	250 μA (1 mA)							✓		✓	60	DPAK-3
NCV4276B	Adj, 3.3, 5	±2	400 mA	0.5 V	10 μA	220 μA (1 mA)	✓						✓		✓	45	DPAK-5, D2PAK-5
NCV4276C	Adj, 3.3, 5	±2	400 mA	0.5 V	10 μA	220 μA (1 mA)	✓						✓		✓	45	DPAK-5, D2PAK-5
NCV4275A	3.3, 5	±2	450 mA	0.5 V	–	200 μA (1 mA)		✓	✓				✓		✓	45	DPAK-5, D2PAK-5
NCV4275C	3.3, 5	±2	450 mA	0.5 V	–	200 μA (1 mA)		✓	✓				✓		✓	45	DPAK-5, D2PAK-5
NCV4290	5	±2	450 mA	0.5 V	–	230 μA (1 mA)		✓	✓				✓		✓	45	DPAK-5, D2PAK-5

**** See data sheet for details.**

SINGLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current	Dropout (Max)	Sleepmode Current Max	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset (✓✓ = Adjustable)	Delay	Early Warning Flag/Monitor	Watchdog	Wakeup	Current Limit	Overvoltage	Overtemperature	Peak Transient (V)	Package(s)
NCV317M	Adj	±4	500 mA	2.2 V (Typ)	–	–							✓		✓	40	DPAK-3
NCV5500	Adj, 1.5, 3.3, 5	±4.9	500 mA	0.7 V	50 µA	500 µA (100 µA)	✓						✓		✓	18	SOIC-8, DPAK-5
NCV5501	1.5, 3.3, 5	±4.9	500 mA	0.7 V	–	500 µA (100 µA)							✓		✓	18	DPAK-3
NCV78Mxx	5, 8, 12, 15	±4	500 mA	**	–	**							✓		✓	35	DPAK-3, TO-220
NCV78MxxA	5	±4	500 mA	**	–	**							✓		✓	35	DPAK-3
NCV8141	5	±3	500 mA	1.5 V	50 µA	**	✓	✓	✓		✓		✓	✓	✓	60	D2PAK-7
NCV8535	Adj, 1.5, 1.8, 2.5, 2.8, 2.85, 3.0, 3.3, 5	±1.5	500 mA	0.34 V	1 µA	190 µA (100 µA)	✓						✓		✓	16	DFN-10
NCV8537	Adj, 1.8, 2.5, 3.3, 5.0	±1.5	500 mA	0.34 V	1 µA	190 µA (100 µA)	✓			✓			✓		✓	16	DFN-10
NCV8605	Adj, 1.5, 1.8, 2.5, 2.8, 3, 3.3, 5	±1.5	500 mA	0.2 V	–	145 µA (100 µA)							✓		✓	6	DFN-6
NCV8606	Adj, 1.5, 1.8, 2.5, 2.8, 3, 3.3, 5	±1.5	500 mA	0.2 V	1 µA	145 µA (100 µA)	✓						✓		✓	6	DFN-6
NCV8705	0.8 - 3.5V, ADJ	±2	500 mA	0.35 V	2.0 µA	25 µA	✓						✓		✓	6	WDFN-6, DFN-8, DFNW-8
NCV8177	0.8 – 2.1	-2.5/1.5	500 mA	0.22 V	1.5 µA	90 µA	✓						✓		✓	6	XDFN-4, WDFNW-8
NCV33269	Adj, 3.3, 5, 12	±2	800 mA	1.35 V	–	–							✓		✓	20	DPAK-3
NCV78xxA	5, 12	±4	1 A	**	–	–							✓		✓	35	D2PAK-3, TO-220
NCV78xx	5, 8, 12, 15	5%	1 A	**	–	–							✓		✓	35	DPAK-3, D2PAK-3, TO-220
NCV5661	Adj, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3	±2	1 A	1.3 V	300 µA	–	✓	✓					✓		✓	18	DPAK-5, DFN-6
NCV8186	1.2 - 3.9 V	±1	1 A	1.2 V	–	–	✓						✓		✓	6	DFN-8
NCV1117	Adj, 1.5, 1.8, 2, 2.5, 3.3, 5, 12	±2	1 A	1.2 V	–	–							✓		✓	20	DPAK-3, SOT-223
NCV8187	1.2, 1.8, 3.3	±2	1.2A	0.495V	5 µA	45 µA	✓						✓			6	WDFN6, DFNW6, DFN6
NCV317	Adj	±4	1.5 A	2.25 V (Typ)	–	–							✓		✓	40	D2PAK-3, TO-220
NCV565	Adj	±3	1.5 A	1.3 V	–	–							✓		✓	18	D2PAK-5
NCV57152	Adj	±2	1.5 A	0.52 V	5 µA	–	✓						✓		✓	18	D2PAK-5, DFN8
NCV59150	Adj, 1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±1.5	1.5 A	0.5 V	5 µA	–	✓			✓			✓		✓	18	DFN-8, D2PAK-3, D2PAK-5
NCV59151	1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±1.5	1.5 A	0.5 V	5 µA	–	✓	✓					✓		✓	18	DFN-8, D2PAK-3, D2PAK-5
NCV59152	Adj	±1.5	1.5 A	0.5 V	5 µA	–	✓						✓		✓	18	DFN-8, D2PAK-3, D2PAK-5
NCV59748	Adj	±2.0	1.5 A	0.165 V	50 µA	2000 µA	✓						✓		✓	6	DFN-10
NCV5662	Adj, 1.5	±2	2 A	1.3 V	300 µA	–	✓	✓					✓		✓	18	D2PAK-5
NCV57302	Adj	±2.5	3 A	0.52 V	5 µA	–	✓						✓		✓	18	D2PAK-5
NCV59300	1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±2	3 A	0.5 V	5 µA	–	✓						✓		✓	18	D2PAK-5, D2PAK-3
NCV59301	1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±2	3 A	0.5 V	5 µA	–	✓	✓					✓		✓	18	D2PAK-5
NCV59302	Adj	±2	3 A	0.5 V	5 µA	–	✓						✓		✓	18	D2PAK-5
NCV59744	Adj	±1	3 A	0.195 V	15 µA	2000 µA	✓						✓		✓	6	QFN-20
NCV5663	Adj, 1.5	±2	3 A	1.3 V	300 µA	–	✓	✓					✓		✓	18	D2PAK-5

**** See data sheet for details.**

DUAL AND MULTIPLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current (mA)	Dropout Max	Sleepmode Current Max	Quiescent Current [Max] @ Low Load (Load)	Reset	Delay	Sequenced	Automatic Switchover (ASO)	Early Warning Flag/Monitor	Current Limit	Overvoltage Shutdown	Overtemperature	Peak Transient (V)	Package(s)
NCV8509	5.0, 5.0, 3.3 2.6, 2.5, 1.8	±2 ±2	100 115	0.6 V –	–	175 μA (200 μA)	✓	✓	✓			✓		✓	50	SOIC-16 ePad
NCV5504	Adj 3.3	±2 ±2	250 250	0.4 V 0.4 V	–	450 μA (0 μA)						✓		✓	18	DPAK-5
NCV8152	1.2, 1.5, 1.8, 2.8, 3.0, 3.3 1.2, 1.8 , 2.5, 2.8, 3.0, 3,3	±2.8 ±2.8	300 300	0.24 V 0.24 V	1 μA	200 μA (0 mA)	✓					✓		✓	6	XDFN-6
NCV8154	1.8, 3.0, 3.3 1.8 , 2.8, 3.0, 3.3	±3 ±3	300 300	0.29 V 0.29 V	1 μA	200 μA (0 mA)	✓					✓		✓	6	DFN-10
NCV8614B	5 3.3 Adj	±2 ±2 ±2	100 300 400	0.5 V 1.5 V 2.5 V	0.5 μA	50 μA (70 μA)	✓	✓		✓	✓	✓	✓	✓	45	DFN-20

TRACKING REGULATORS

Device	Output Voltage	Tolerance	Output Current	Dropout Max	Sleepmode Current Max	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset	Current Limit	Overvoltage Shutdown	Overtemperature	Peak Transient (V)	Package(s)
NCV4250-2C	Tracking	±5 mV	50 mA	0.3 V	20 μA	150 μA (1 mA)	✓		✓		✓	45	TSOP-5
CS8182	Tracking	±10 mV	200 mA	0.6 V	55 μA	150 μA (100 μA)	✓		✓		✓	45	DPAK-5, D2PAK-5, SOIC-8 Fused
CS8361	Tracking 5 V	±25 mV ±2 %	250 mA 100 mA	0.7 V 0.6 V	200 μA	200 μA (300 μA)	✓	✓	✓	✓	✓	60	D2PAK-7, SOIC-16 Fused
NCV4254C	Tracking	±3 mV	70 mA	0.4 V		80 μA (100 μA)	✓		✓		✓	45	SOIC-8, SOIC-8 ePad

**** See data sheet for details.**

CURRENT SENSE REGULATORS

Device	Output Voltage	Tolerance	Output Current (mA)	Dropout Max (V)	Sleepmode Current Max	Quiescent Current [Max] @ Low Load (Load)	Enable	Current Sense Output	Error Flag	Off State Diagnostics	Current Limit	Overtemperature	Peak Transient (V)	Package(s)
NCV47551	Adj	±3	20	0.5	10 μA	380 μA (100 μA)	✓	✓			✓	✓	45	SOIC-8
NCV47411	Dual Adj	±3	100	0.55	10 μA	370 μA (500 μA)	✓	✓			✓	✓	45	TSSOP-14 ePad
NCV47721	Adj	±3	200	0.5	10 μA	1 mA (500 μA)	✓	✓	✓	✓	✓	✓	60	TSSOP-14 ePad
NCV47821	Dual Adj	±3	200	0.5	10 μA	1 mA (500 μA)	✓	✓	✓	✓	✓	✓	60	TSSOP-14 ePad
NCV47722	High Side Switch	±3	250	0.4	10 μA	1.5 mA (500 μA)	✓	✓	✓	✓	✓	✓	60	TSSOP-14 ePad
NCV47822	Dual High Side Switch	±3	250	0.4	10 μA	1.5 mA (500 μA)	✓	✓	✓	✓	✓	✓	60	TSSOP-14 ePad
NCV47823	Dual High Side Switch w/ Adjustable Constant Current	±3	250	0.4	10 μA	1.5 mA (500 μA)	✓	✓	✓	✓	✓	✓	60	TSSOP-14 ePad
NCV47700	Adj	±6	350	0.5	10 μA	230 μA (1 mA)	✓	✓			✓	✓	45	SOIC-8, SOIC-8 EP
NCV47701	Adj	±3	350	0.5	10 μA	230 μA (1 mA)	✓	✓			✓	✓	45	SOIC-8, SOIC-8 EP
NCV47710	Adj	±6	350	0.5	10 μA	230 μA (1 mA)	✓	✓			✓	✓	45	SOIC-8, SOIC-8 EP
NCV47711	Adj	±3	350	0.5	10 μA	230 μA (1 mA)	✓	✓			✓	✓	45	SOIC-8, SOIC-8 EP

CHARGE PUMPS

Device	Buck	Boost	Pass Mode (LDO)	Output Current In Buck Mode	Output Current In Boost Mode	Output Current In Pass Mode	FSW	Output Voltage	Tolerance	Sleepmode Current (Typ)	Quiescent Current (Max) @ Low Load (Load)	Enable	Reset	Charge Pump Active Output	TSD	UVLO	Overvoltage	Short Circuit	Current Limit	Peak Transient (V)	Package(s)
NCV48220		✓	✓	–	Up to 150 mA	Up to 150 mA	450 kHz	5 V	±2 %	1 µA	40 µA (100 µA)	✓	✓		✓	✓	✓	✓	✓	45	SOIC-16W
NCV48920	✓	✓		Up to 600 mA	Up to 300 mA		450 kHz	5 V	±2 %	1 µA	50 µA (100 µA)	✓	✓	✓	✓	✓	✓	✓	✓	45	TSSOP-14 Epad, DFN

LINEAR VOLTAGE REFERENCES

Device	Type	$V_{(BR)}$ Typ (V)	Tolerance (%)	I_Q Typ (mA)	I_R Min (mA)	V_F Max (V)	Package(s)
SC431AVSN	Adjustable	2.5	1	0.04	0.04	36	SOT-23-3
NCV431A	Adjustable	2.495	1	0.5	1	36	Micro8, SOIC-8
NCV431B	Adjustable	2.495	0.4	0.5	1	36	Micro8, SOIC-8
NCV1009	Fixed	2.5	0.2	–	0.4	–	SOIC-8
NCP51460	–	3.3	1	0.14	20	30	SOT-23-3

DDR VOLTAGE REGULATORS

Device	Output Current (A)	V_{CC} Range (V)	Applications	Package(s)
NCV51190	±1.5 A	1.5 - 2.5	DDR-2, DDR-3, DDR-4	DFN-8
NCV51198	±1.5 A	1.5 - 2.5	DDR, DDR-2, DDR-3	SOIC-8 EP
NCV51199	±2 A	1.5 - 5.5	DDR-2, DDR-3	SOIC-8 EP
NCV51510	±3 A	1.1 - 3.6	DDR, DDR-2, DDR-3, DDR-4	DFN-10
NCV51200	±3 A	1.5 - 3.5	DDR, DDR-2, DDR-3, DDR-4	DFN-10
NCV51400	±3 A	1.1 - 3.5	DDR, DDR-2, DDR-3, LPDDR-3, DDR-4, LPDDR-4	DFN-10

EEPROMs

Interface Protocol	Device	Density	Organization	Temperature Range	V_{CC} Min (V)	V_{CC} Max (V)	f_{clk} Max (MHz)	Package(s)
I2C	CAV24M01	1 Mb	128k x 8	-40 to +125°C (Grade 1)	2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C512	512 kb	64k x 8		2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C256	256 kb	32k x 8		2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C128	128 kb	16k x 8		2.5	5.5	1	SOIC-8, TSSOP-8
	CAV24C64	64 kb	8k x 8		2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C32	32 kb	4k x 8		2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C16	16 kb	2k x 8		2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C08	8 kb	1k x 8		2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C04	4 kb	512 x 8		2.5	5.5	0.4	SOIC-8, TSSOP-8
	CAV24C02	2 kb	256 x 8		2.5	5.5	0.4	SOIC-8, TSSOP-8
	N24C64	64 kb	8k x 8	-40 to +125°C (Grade 1)	1.8	5.5	1	US-8
	N24C32	32 kb	4k x 8		1.8	5.5	1	US-8
	N24C16	16 kb	2k x 8		1.8	5.5	1	US-8
	N24C08	8 kb	1k x 8		1.8	5.5	1	US-8
	N24C04	4 kb	512 x 8		1.8	5.5	1	US-8
	N24C02	2 kb	256 x 8		1.8	5.5	1	US-8
SPI	CAV25M01	1 Mb	128k x 8	-40 to +125°C (Grade 1)	2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25512	512 kb	64k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25256	256 kb	32k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25128	128 kb	16k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25640	64 kb	8k x 8		2.5	5.5	10	SOIC-8, TSSOP-8, TDFN-8
	CAV25320	32 kb	4k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25160	16 kb	2k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25080	8 kb	1k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25040	4 kb	512 x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25020	2 kb	256 x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	CAV25010	1 kb	128 x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	NV25640	64 kb	8k x 8	-40 to +150°C (Grade 0)	2.5	5.5	10	SOIC-8, TSSOP-8
	NV25320	32 kb	4k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	NV25160	16 kb	2k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	NV25080	8 kb	1k x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	NV25040	4 kb	512 x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	NV25020	2 kb	256 x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	NV25010	1 kb	128 x 8		2.5	5.5	10	SOIC-8, TSSOP-8
	NV25512WF	512 kb	64k x 8	-40 to +125°C (Grade 1)	1.8	5.5	10	UDFN-8 Wettable Flank
	NV25256WF	256 kb	32k x 8		1.8	5.5	10	UDFN-8 Wettable Flank
	NV25128WF	128 kb	16k x 8		2.5	5.5	10	UDFN-8 Wettable Flank
	NV25640WF	64 kb	8k x 8		2.5	5.5	10	UDFN-8 Wettable Flank
	NV25320WF	32 kb	4k x 8		2.5	5.5	10	UDFN-8 Wettable Flank
	NV25160WF	16 kb	2k x 8		1.8	5.5	10	UDFN-8 Wettable Flank
	NV25080WF	8 kb	1k x 8		1.8	5.5	10	UDFN-8 Wettable Flank
	NV25040WF	4 kb	512 x 8		1.8	5.5	10	UDFN-8 Wettable Flank
	NV25020WF	2 kb	256 x 8		1.8	5.5	10	UDFN-8 Wettable Flank
	NV25010WF	1 kb	128 x 8		1.8	5.5	10	UDFN-8 Wettable Flank
Microwire	CAV93C86	16 kb	2k x 8 / 1k x 16	-40 to +125°C (Grade 1)	2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C76	8 kb	1k x 8 / 512 x 16		2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C66	4 kb	512 x 8 / 256 x 16		2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C56	2 kb	256 x 8 / 128 x 16		2.5	5.5	2	SOIC-8, TSSOP-8
	CAV93C46	1 kb	128 x 8 / 64 x 16		2.5	5.5	2	SOIC-8, TSSOP-8
SPI	NV25640LV	64 kb	8k x 8	-40 to +125°C (Grade 1)	1.7	5.5	20	SOIC-8, TSSOP-8*
	NV25320LV	32 kb	4k x 8		1.7	5.5	20	SOIC-8, TSSOP-8*
	NV25160LV	16 kb	2k x 8		1.7	5.5	20	SOIC-8, TSSOP-8*
	NV25080LV	8 kb	1k x 8		1.7	5.5	20	SOIC-8, TSSOP-8*
	NV25040LV	4 kb	512 x 8		1.7	5.5	20	SOIC-8, TSSOP-8*
	NV25020LV	2 kb	256 x 8		1.7	5.5	20	SOIC-8, TSSOP-8*
	NV25010LV	1 kb	128 x 8		1.7	5.5	20	SOIC-8, TSSOP-8*

*** Other packages to follow.**

MOSFETs

Device	Configuration	Polarity	B_{VDSS} (V)	Gate Level	$R_{DS(on)}$ Max @ 10 V (mΩ)	Q_G @ 10 V Typ (nC)	Package(s)
30 V							
NVMFS4C01N	Single	N	30	LL	0.67	139	SO-8FL
NVMFS4C302N	Single	N	30	LL	1.15	11.6	SO-8FL
NVTFS4C02N*	Single	N	30	LL	2.25	tbc	µ8FL
NVMFS4C03N	Single	N	30	LL	2.3	45.2	SO-8FL
NVMFS4C05N	Single	N	30	LL	3.4	30	SO-8FL
NVMFS4C306N*	Single	N	30	LL	3.4	11.6	SO-8FL
NVTFS4C05N	Single	N	30	LL	3.6	31	µ8FL
NVD4C05N	Single	N	30	LL	4.1	31	DPAK
NVTFS4C06N	Single	N	30	LL	4.2	26	µ8FL
NVMFS4C308N*	Single	N	30	LL	4.8	8.4	SO-8FL
NVTFS4C08N	Single	N	30	LL	5.9	18.2	µ8FL
NVMFS4C310N	Single	N	30	LL	6	9.7	SO-8FL
NVTFS4C10N	Single	N	30	LL	7.4	19.2	µ8FL
NVATS4A104PZ	Single	P	30	SL	8.4	76	ATPAK
NVLUS4C12N	Single	N	30	LL	9	8.4	P22
NVTFS4C13N	Single	N	30	LL	9.4	15.2	µ8FL
NVATS4A103PZ	Single	P	30	SL	13	47	ATPAK
NVTFS4C25N	Single	N	30	LL	17	10.3	µ8FL
NVATS4A102PZ	Single	P	30	SL	18.5	34	ATPAK
NVLUD4C26N	Dual	N	30	LL	21	5	Power22
NVATS4A101PZ	Single	P	30	SL	30	18.5	ATPAK
NVLJD4007NZ	Dual	N	30	LL	7000	0.75	Power22
40 V							
NVMTS0D4N04CL	Single	N	40	LL	0.42	341	Power88
NVMTS0D4N04C	Single	N	40	SL	0.44	250	Power88
NVMTS0D6N04CL	Single	N	40	LL	0.56	tbc	Power88
NVBLS0D5N04M8	Single	N	40	SL	0.57	220	TO-LL
NVMTS0D6N04C	Single	N	40	SL	0.58	185	Power88
FDBL9401L-F085	Single	N	40	LL	0.6	280	TO-LL
NVMTS0D7N04CL	Single	N	40	LL	0.63	205	Power88
NVMFS5C404NL	Single	N	40	LL	0.67	181	SO-8FL
NVMFS5C404N	Single	N	40	SL	0.7	128	SO-8FL
NVMTS0D7N04C	Single	N	40	SL	0.74	141	Power88
NVBLS0D7N04M8	Single	N	40	SL	0.75	144	TO-LL
NVMFS5C406NL	Single	N	40	LL	0.77	tbc	SO-8FL
NVMFS5C406N	Single	N	40	SL	0.8	110	SO-8FL
NVMJS0D8N04CL	Single	N	40	LL	0.83	162	LFPAK8
FDBL9403L-F085	Single	N	40	LL	0.85	186	TO-LL
NVMFS5C410NL	Single	N	40	LL	0.9	143	SO-8FL
NVMFSC0D9N04CL*	Single	N	40	LL	0.9	tbc	DFN-8 DC
NVMJS0D9N04C	Single	N	40	SL	0.9	162	LFPAK8
NVMFS5C410N	Single	N	40	SL	0.92	86	SO-8FL
NVMJS0D9N04CL	Single	N	40	LL	0.92	143	LFPAK8
NVMFSC0D9N04C*	Single	N	40	SL	0.87	86	DFN-8 DC
NVMJS1D0N04C	Single	N	40	SL	1	86	LFPAK8
FDBL9406L-F085	Single	N	40	LL	1.1	121	TO-LL
NVMFS5C426NL	Single	N	40	LL	1.1	65	SO-8FL
FDB9403-F085	Single	N	40	SL	1.2	164	D2PAK
FDB9403L-F085	Single	N	40	LL	1.2	186	D2PAK
NVMYS1D2N04CL	Single	N	40	LL	1.2	74	LFPAK4
NVMJS1D2N04CL	Single	N	40	LL	1.25	92	LFPAK8
NVMFS5C426N	Single	N	40	SL	1.3	65	SO-8FL

*** Pending 3Q19. ** Pending 4Q19.**

MOSFETs

Device	Configuration	Polarity	B_{VDSS} (V)	Gate Level	$R_{DS(on)}$ Max @ 10 V (mΩ)	Q_G @ 10 V Typ (nC)	Package(s)
NVMJS1D3N04C	Single	N	40	SL	1.3	65	LFPAK8
NVMYS1D3N04C	Single	N	40	SL	1.3	74	LFPAK4
NVMFS5C430NL	Single	N	40	LL	1.5	70	SO-8FL
NVMJS1D5N04CL	Single	N	40	LL	1.55	70	LFPAK8
NVMFS5C430N	Single	N	40	SL	1.7	47	SO-8FL
NVMJS1D7N04C	Single	N	40	SL	1.7	47	LFPAK8
FDB9406-F085	Single	N	40	SL	1.8	107	D2PAK
FDB9406L-F085	Single	N	40	LL	1.8	121	D2PAK
FDD9407-F085	Single	N	40	SL	1.8	86	DPAK
NVMFS2D3P04M8L**	Single	P	40	LL	1.9	tbc	SO-8FL
FDD9407L-F085	Single	N	40	LL	2	96	DPAK
NVMFS5C423NL	Single	N	40	LL	2	50	SO-8FL
NVMYS2D1N04CL*	Single	N	40	LL	2.15	50	LFPAK4
NVTFS002N04CLTAG	Single	N	40	LL	2.2	40	µ8FL
NVD5C434N	Single	N	40	SL	2.2	86	DPAK
NVMFS5C442N	Single	N	40	SL	2.3	32	SO-8FL
NVTFS002N04CTAG	Single	N	40	SL	2.4	32	µ8FL
NVMYS2D4N04C*	Single	N	40	SL	2.4	32	LFPAK4
NVMFS5C442NL	Single	N	40	LL	2.5	50	SO-8FL
FDB9503L-F085	Single	P	40	LL	2.6	196	D2PAK
FDD9409-F085	Single	N	40	SL	2.6	42	DPAK
FDD9409L-F085	Single	N	40	LL	2.6	52	DPAK
NVMFD5C446NL	Dual	N	40	LL	2.8	54	SO-8FL Dual
NVMFS5C450NL	Single	N	40	LL	2.8	35	SO-8FL
NVMFS3D0P04M8L**	Single	P	40	LL	2.9	tbc	SO-8FL
NVMYS2D9N04CL	Single	N	40	LL	2.9	35	LFPAK4
NVTFS5C453NL	Single	N	40	LL	2.9	23	µ8FL
NVMFD5C446N	Dual	N	40	SL	3	28	SO-8FL Dual
NVMFS5C450N	Single	N	40	SL	3.3	23	SO-8FL
FDB9409-F085	Single	N	40	SL	3.5	43	D2PAK
FDB9409L-F085	Single	N	40	LL	3.5	52	D2PAK
NVD5C446N	Single	N	40	SL	3.5	38	DPAK
NVMYS3D5N04C	Single	N	40	SL	3.5	23	LFPAK4
NVTFS003N04CTAG	Single	N	40	SL	3.5	23	µ8FL
NVMFS5C456NL	Single	N	40	LL	3.7	18	SO-8FL
NVMYS3D8N04CL*	Single	N	40	LL	3.8	18	LFPAK4
FDB9506L-F085	Single	P	40	LL	3.9	134	D2PAK
NVTFS5C454NL	Single	N	40	LL	3.9	18	µ8FL
NVD5C454NL	Single	N	40	LL	4	40	DPAK
FDD9410-F085	Single	N	40	SL	4.1	24	DPAK
FDD9410L-F085	Single	N	40	LL	4.2	29	DPAK
NVD5C454N	Single	N	40	SL	4.2	25	DPAK
NVMFS5A140PLZ	Single	P	40	LL	4.2	136	SO-8FL
FDD9507L-F085	Single	P	40	LL	4.4	100	DPAK
NVMFS5C456N	Single	N	40	SL	4.5	18	SO-8FL
NVMFS5C460NL	Single	N	40	LL	4.5	23	SO-8FL
NVMYS4D5N04C	Single	N	40	SL	4.5	17	LFPAK4
NVTFS004N04CTAG	Single	N	40	SL	4.5	18	µ8FL
NVD5C460NL	Single	N	40	LL	4.6	17	DPAK
NVMFD5C462NL	Dual	N	40	LL	4.7	23	SO-8FL Dual
NVMYS4D6N04CL	Single	N	40	LL	4.6	23	LFPAK4
NVTFS5C460NL	Single	N	40	LL	4.8	11	µ8FL

*** Pending 3Q19. ** Pending 4Q19.**

MOSFETs

Device	Configuration	Polarity	B_{VDSS} (V)	Gate Level	$R_{DS(on)}$ Max @ 10 V (mΩ)	Q_G @ 10 V Typ (nC)	Package(s)
FDWS9508L-F085	Single	P	40	LL	4.9	91	PWR56
NVD5C460N	Single	N	40	SL	4.9	22	DPAK
NVMFD5C462N	Dual	N	40	SL	5.3	15	SO-8FL Dual
NVMFS5C460N	Single	N	40	SL	5.3	13	SO-8FL
NVMYS5D3N04C	Single	N	40	SL	5.3	15	LFPAK4
NVTFS005N04CTAG	Single	N	40	SL	5.3	13	µ8FL
NVD5C464N	Single	N	40	SL	5.8	19	DPAK
NVD5C464NL	Single	N	40	LL	5.8	30	DPAK
FDD9411L-F085	Single	N	40	LL	7	18	DPAK
NVMFD5C466NL	Dual	N	40	LL	7.2	16	SO-8FL Dual
NVMYS7D3N04CL	Single	N	40	LL	7.3	7	LFPAK4
NVTFS5C466NL	Single	N	40	LL	7.3	16	µ8FL
NVMFS5C466NL	Single	N	40	LL	7.5	16	SO-8FL
FDD9411-F085	Single	N	40	SL	7.8	15	DPAK
NVD5C478NL	Single	N	40	LL	8	20	DPAK
NVMYS8D0N04C	Single	N	40	SL	8	10	LFPAK4
FDWS9509L-F085	Single	P	40	LL	8.1	55	PWR56
NVD5C478N	Single	N	40	SL	8.4	13	DPAK
NVMFD5C466N	Dual	N	40	SL	8.5	10	SO-8FL Dual
NVMFS5C466N	Single	N	40	SL	8.5	10	SO-8FL
NVTFS008N04CTAG	Single	N	40	SL	8.5	10	µ8FL
FDD9509L-F085	Single	P	40	LL	8.6	55	DPAK
NVTFS9D6P04M8L**	Single	P	40	LL	9.6	tbc	µ8FL
NVMYS010N04CL	Single	N	40	LL	10	7.3	LFPAK4
NVMFS5C468NL	Single	N	40	LL	10.3	7.3	SO-8FL
NVATS5A108PLZ	Single	P	40	LL	10.4	79.5	ATPAK
NVMFD5C470NL	Dual	N	40	LL	11.4	9	SO-8FL Dual
NVTFS5C471NL	Single	N	40	LL	11.4	9	µ8FL
NVMYS011N04C	Single	N	40	SL	11.8	7.3	LFPAK4
NVMFD5C470N	Dual	N	40	SL	13	5	SO-8FL Dual
NVMFS5C468N	Single	N	40	SL	13	5	SO-8FL
FDD9510L-F085	Single	P	40	LL	14	32	DPAK
FDWS9510L-F085	Single	P	40	LL	14	32	PWR56
NVTFS014P04M8L**	Single	P	40	LL	14	34	µ8FL
NVMFD5C478NL	Dual	N	40	LL	14.5	8	SO-8FL Dual
NVMFD5C478N	Dual	N	40	SL	14.7	7	SO-8FL Dual
NVTFS015N04CTAG	Single	N	40	SL	15	7	µ8FL
NVTFS5C478NL	Single	N	40	LL	15	3.8	µ8FL
NVD5C486NL	Single	N	40	LL	16	15	DPAK
NVATS5A107PLZ	Single	P	40	LL	17	47	ATPAK
NVD5C486N	Single	N	40	SL	18	10	DPAK
FDD9511L-F085	Single	P	40	LL	21	21	DPAK
FDWS9511L-F085	Single	P	40	LL	21	21	PWR56
NVATS5A106PLZ	Single	P	40	LL	25	29	ATPAK
NVTFS052P04M8L**	Single	P	40	LL	52	tbc	µ8FL
60 V							
NVMTS0D7N06CL	Single	N	60	LL	0.75	215	Power88
NVMTS0D7N06C	Single	N	60	SL	0.77	215	Power88
NVMFS5H600NL	Single	N	60	LL	0.8	89	SO-8FL
NVMFS5C604NL	Single	N	60	LL	1	120	SO-8FL
NVMTS001N06CL	Single	N	60	LL	1	160	Power88
FDBL86561-F085	Single	N	60	SL	1.1	170	TO-LL

*** Pending 3Q19. ** Pending 4Q19.**

MOSFETs

Device	Configuration	Polarity	B_{VDSS} (V)	Gate Level	$R_{DS(on)}$ Max @ 10 V (mΩ)	Q_G @ 10 V Typ (nC)	Package(s)
NVMFS5H615NL	Single	N	60	LL	1.1	28	SO-8FL
NVMTS001N06C	Single	N	60	SL	1.1	160	Power88
NVMFS5C604N	Single	N	60	SL	1.2	80	SO-8FL
NVMFSC1D6N06CL*	Single	N	60	LL	1.6	tbc	DFN-8 DC (Dual Cool)
NVMJS1D4N06CL	Single	N	60	LL	1.4	91	LFPAK8
FDBL86563-F085	Single	N	60	SL	1.5	130	TO-LL
NVMFS5C612NL	Single	N	60	LL	1.5	91	SO-8FL
NVMJS1D6N06CL	Single	N	60	LL	1.6	91	LFPAK8
NVMFS5C612N	Single	N	60	SL	1.65	64	SO-8FL
FDB86563-F085	Single	N	60	SL	1.8	126	D2PAK
NVMYS2D2N06CL	Single	N	60	LL	2.2	64	LFPAK4
FDBL86566-F085	Single	N	60	SL	2.4	80	TO-LL
NVMFS5C628NL	Single	N	60	LL	2.4	52	SO-8FL
NVMJS2D5N06CL	Single	N	60	LL	2.4	52	LFPAK8
FDB86566-F085	Single	N	60	SL	2.7	80	D2PAK
NVD5C632NL	Single	N	60	LL	3	78	DPAK
FDD86567-F085	Single	N	60	SL	3.2	63	DPAK
NVMFS5C638NL	Single	N	60	LL	3.2	43	SO-8FL
NVMYS3D3N06CL	Single	N	60	LL	3.3	42	LFPAK4
NVMFD5C650NL	Dual	N	60	LL	4	37	SO-8FL Dual
NVMFS5C645NL	Single	N	60	LL	4	34	SO-8FL
NVMYS4D1N06CL	Single	N	60	LL	4.1	34	LFPAK4
NVMFS5C645N	Single	N	60	SL	4.2	34	SO-8FL
NVD5C648NL	Single	N	60	LL	4.6	39	DPAK
NVMFS5C646NL	Single	N	60	LL	4.7	38	SO-8FL
NVTFS5C658NL	Single	N	60	LL	4.8	27	µ8FL
FDB86569-F085	Single	N	60	SL	5.6	35	D2PAK
NVMFS5H663NL	Single	N	60	LL	5.6	17	SO-8FL
FDD86569-F085	Single	N	60	SL	5.7	35	DPAK
NVMFS5C670NL	Single	N	60	LL	6.1	20	SO-8FL
NVMYS6D2N06CL*	Single	N	60	LL	6.2	20	LFPAK4
NVTFS5C670NL	Single	N	60	LL	6.3	20	µ8FL
NVATS5A304PLZ	Single	P	60	LL	6.5	250	ATPAK
NVMFD5C668NL	Dual	N	60	LL	6.8	20	SO-8FL Dual
NVMFS5A160PLZ	Single	P	60	LL	7.7	160	SO-8FL
NVMFS5H610NL	Single	N	60	LL	9	13.7	SO-8FL
NVMFS5C673NL	Single	N	60	LL	9.2	20	SO-8FL
NVD5C668NL	Single	N	60	LL	9.3	19	DPAK
NVMYS9D3N06CL*	Single	N	60	LL	9.3	9.5	LFPAK4
FDD86580-F085	Single	N	60	SL	10	20	DPAK
NVTFS5C673NL	Single	N	60	LL	10	14	µ8FL
NVMFD5C672NL	Dual	N	60	LL	11.2	12	SO-8FL Dual
NVATS5A302PLZ	Single	P	60	LL	13	115	ATPAK
NVMFD5C674NL	Dual	N	60	LL	13.7	10	SO-8FL Dual
NVMFS5C677NL	Single	N	60	LL	14.4	10	SO-8FL
NVMYS014N06CL	Single	N	60	LL	14.5	10	LFPAK4
FDD86581-F085	Single	N	60	SL	15	13	DPAK
NVATS5A114PLZ	Single	P	60	LL	16	92	ATPAK
NVD5C684NL	Single	N	60	LL	17.5	9	DPAK
NVMFS5C682NL	Single	N	60	LL	21	5	SO-8FL
NVMYS021N06CL	Single	N	60	LL	21	5	LFPAK4
NVMFS5113PL	Single	P	60	LL	22	83	SO-8FL
NVTFS5C680NL	Single	N	60	LL	25	5	µ8FL

*** Pending 3Q19. ** Pending 4Q19.**

MOSFETs

Device	Configuration	Polarity	BV_{DSS} (V)	Gate Level	$R_{DS(on)}$ Max @ 10 V (mΩ)	Q_G @ 10 V Typ (nC)	Package(s)
NVMFD5C680NL	Dual	N	60	LL	26	5	SO-8FL Dual
NVMFS5C680NL	Single	N	60	LL	26	5	SO-8FL
NVATS5A113PLZ	Single	P	60	LL	29.5	55	ATPAK
NVD5C688NL	Single	N	60	LL	30	6	DPAK
NVMYS025N06CL	Single	N	60	LL	30	6	LFPAK4
NVATS5A112PLZ	Single	P	60	LL	43	33.5	ATPAK
NVTFS5116PL	Single	P	60	LL	52	25	µ8FL
NVC6S5A444NLZ	Single	N	60	LL	78	10	CPH-6
NVC3S5A51PLZ	Single	P	60	LL	250	6	CPH-6
NVTFS5124PL	Single	P	60	LL	260	6	µ8FL
80 V							
NVBLS1D1N08H**	Single	N	80	SL	1.1	tbc	TO-LL
NVMTS1D2N08H*	Single	N	80	SL	1.2	148	Power88
FDBL86361-F085	Single	N	80	SL	1.4	172	TO-LL
NVMTS1D5N08H*	Single	N	80	SL	1.5	120	Power88
NVBLS1D7N08H**	Single	N	80	SL	1.7	110	TO-LL
NVMFS6H800NL*	Single	N	80	LL	1.8	85	SO-8FL
FDBL86363-F085	Single	N	80	SL	2	130	TO-LL
NVMFS6H800N	Single	N	80	SL	2.1	85	SO-8FL
FDB86363_F085	Single	N	80	SL	2.4	131	D2PAK
NVMFS6H801N	Single	N	80	SL	2.8	64	SO-8FL
FDBL86366-F085	Single	N	80	SL	3	86	TO-LL
FDB86366-F085	Single	N	80	SL	3.6	86	D2PAK
NVMFS6H818N	Single	N	80	SL	3.7	46	SO-8FL
FDD86367-F085	Single	N	80	SL	4.2	68	DPAK
NVMFS6H824N	Single	N	80	SL	4.5	tbc	SO-8FL
FDWS86368-F085	Single	N	80	SL	4.5	57	PWR56
NVMFD6H840NL*	Dual	N	80	LL	6.9	tbc	SO-8FL
NVMFS6H836N	Single	N	80	SL	7	24	SO-8FL
FDWS86369-F085	Single	N	80	SL	7.5	35	PWR56
FDD86369-F085	Single	N	80	SL	7.9	34	DPAK
NVTFS6H850NL*	Single	N	80	LL	8.5	tbc	µ8FL
NVMFS6H848N	Single	N	80	SL	9.4	16	SO-8FL
NVTFS6H850N	Single	N	80	SL	9.5	17	µ8FL
FDWS86380_F085	Single	N	80	SL	13.4	35	PWR56
FDD86380-F085	Single	N	80	SL	13.5	20	DPAK
NVMFS6H852N	Single	N	80	SL	14.5	11	SO-8FL
NVTFS6H854N	Single	N	80	SL	14.5	11	µ8FL
FDD86381-F085	Single	N	80	SL	21	14	DPAK
NVMFS6H858N	Single	N	80	SL	21	7	SO-8FL
NVTFS6H860N	Single	N	80	SL	21	7	µ8FL
FDMS86381-F085	Single	N	80	SL	22	14	PWR56
NVMFD6H852NL*	Dual	N	80	LL	25	tbc	SO-8FL
NVMFS6H864N	Single	N	80	SL	31	5	SO-8FL
NVTFS6H880N	Single	N	80	SL	31	5	µ8FL
NVTFS6H888N	Single	N	80	SL	50	3	µ8FL

*** Pending 3Q19. ** Pending 4Q19.**

MOSFETs

Device	Configuration	Polarity	B_{VDSS} (V)	Gate Level	$R_{DS(on)}$ Max @ 10 V (mΩ)	Q_G @ 10 V Typ (nC)	Package(s)
100 V							
FDBL86062-F085	Single	N	100	SL	2	95	TO-LL
FDBL86063-F085	Single	N	100	SL	2.6	76	TO-LL
FDBL86066-F085	Single	N	100	SL	4.1	46	TO-LL
FDD86067-F085**	Single	N	100	SL	5	38	DPAK
FDWS86068-F085	Single	N	100	SL	5.8	31	PWR56
FDD86069-F085**	Single	N	100	SL	9.1	19	DPAK
NVTFS010N10MCL	Single	N	100	LL	10.3	22	µ8FL
FDD3672-F085	Single	N	100	SL	28	24	DPAK
FDD3682-F085	Single	N	100	SL	36	18.5	DPAK
NVATS68301PZ	Single	P	100	SL	75	55	ATPAK
150 V							
FDBL86210-F085	Single	N	150	SL	6.3	70	TO-LL
FDD86250-F085	Single	N	150	SL	22	23	DPAK
FDD2572-F085	Single	N	150	SL	54	34	DPAK
650 V							
NVHL025N65S3	Single	N	650	SL	25	97.3	TO-247
NVHL027N65S3F	Single	N	650	SL	28	87	TO-247
NVHL040N65S3F	Single	N	650	SL	40	61	TO-247
NVB072N65S3	Single	N	650	SL	72	34	D2PAK
NVHL072N65S3	Single	N	650	SL	72	34	TO-247
NVB082N65S3	Single	N	650	SL	82	32	D2PAK
NVHL082N65S3F	Single	N	650	SL	82	32	TO-247
NVB110N65S3	Single	N	650	SL	110	23	D2PAK
NVHL110N65S3F	Single	N	650	SL	110	23	TO-247
NVB150N65S3*	Single	N	650	SL	150	tbc	D2PAK
NVB190N65S3*	Single	N	650	SL	190	tbc	D2PAK

*** Pending 3Q19. ** Pending 4Q19.**

JFETs

Device	Configuration	V_{GDS} (V)	I_{DSS} (mA)	V_{GSoff} (V)	g_m (mS)	C_{iss} (pF)	Package(s)
NSVJ2394SA3	Single	15	10-32	-1.5 to -0.3	38	10	SC-59
NSVJ3557SA3	Single	15	10-32	-1.5 to -0.3	35	10	SC-59
NSVJ3910SB3	Single	25	20-40	-1.8 to -0.6	40	6	CPH-3
NSVJ5908DSG5	Dual	15	10-32	-1.5 to -0.3	35	10	MCPH-5
NSVJ6904DSB6	Dual	25	20-40	-1.8 to -0.6	40	6	CPH-6

SELF-PROTECTED MOSFETs

Device	Description	Channels	Package(s)
LOW SIDE			
NCV8402A	Low Side Protected MOSFET, 165 mΩ	1	SOT-223
NCV8402AD	Dual Low Side Protected MOSFET, 165 mΩ	2	SOIC-8
NCV8403A	Low Side Protected MOSFET, 60 mΩ	1	SOT-223, DPAK
NCV8405A	Low Side Protected MOSFET, 100 mΩ	1	SOT-223, DPAK
NCV8406A	Low Side Protected MOSFET, 210 mΩ	1	SOT-223, DPAK
NCV8440A	Clamped MOSFET, 95 mΩ	1	SOT-223
NIMD6001A	Dual N-Channel MOSFET w/Diagnostic Output 130 mΩ	2	SOIC-8
NCV8411	Low Side Protected MOSFET with Inrush Current Management, 23 mΩ	1	DPAK
NCV8413	Low Side Protected MOSFET with Inrush Current Management, 60 mΩ	1	SOT-223, DPAK
NCV8412	Low Side Protected MOSFET with Inrush Current Management, 165 mΩ	1	SOT-223
NCV8412D	Dual Low Side Protected MOSFET with Inrush Current Management, 165 mΩ	2	SOIC-8
HIGH SIDE			
NCV8450A	High Side Protected MOSFET, 1 Ω	1	SOT-223
NCV8452	High Side Protected MOSFET, 200 mΩ	1	SOT-223
NCV8445	High Side Protected MOSFET w\Digital Diagnostics, 45 mΩ	1	SOIC-8
NCV8460A	High Side Protected MOSFET w\Digital Diagnostics, 60 mΩ	1	SOIC-8
NCV8461	High Side Protected MOSFET w\Digital Diagnostics, 350 mΩ	1	SOIC-8
NCV84160	High Side Protected MOSFET w\Current Sense, 160 mΩ	1	SOIC-8
NCV84140	High Side Protected MOSFET w\Current Sense, 140 mΩ	1	SOIC-8

Ignition IGBTs

Device	Clamp Voltage (V)	SCIS Energy (mJ)	I_C @110°C (A)	$V_{CE(sat)}$ Max @25°C (V)	Package(s)
FGD3325G2-F085	250	330	25	1.25	TO-252
ISL9V5036P3-F085	360	500	31	1.6	TO-220
ISL9V5036S3	360	500	31	1.6	TO-262
FGB3236-F085	360	320	26	1.4	TO-263
FGI3236-F085	360	320	26	1.4	TO-263
ISL9V3036S3ST	360	300	17	1.6	TO-263
ISL9V5036S3ST	360	500	31	1.6	TO-263
FGD2736G3-F085	360	270	18	1.35	TO-252
FGP3040G2-F085	400	330	25	1.25	TO-220
FGP3440G2-F085	400	335	25	1.2	TO-220
ISL9V3040P3	400	300	17	1.6	TO-220
FGD3040G2-F085	400	330	25	1.25	TO-252
FGD3440G2-F085	400	335	25	1.2	TO-252
FGI3040G2-F085	400	330	25	1.25	TO-252
ISL9V2040D3ST	400	200	10	1.9	TO-252
ISL9V3040D3ST	400	300	17	1.6	TO-252
FGB3040G2-F085	400	330	25	1.25	TO-263
FGB3440G2-F085	400	335	25	1.2	TO-263
ISL9V2040S3ST	400	200	10	1.45	TO-263
ISL9V2540S3ST	400	250	10	1.8	TO-263
ISL9V3040S3ST	400	300	17	1.6	TO-263
FGB3040CS	400	300	19	1.6	TO-263-6
FGD3245G2-F085	450	320	23	1.25	TO-252
FGB3245G2-F085	450	320	23	1.25	TO-263
ISL9V5045S3ST-F085	450	500	43	1.6	TO-263
FGD3050G2-F085	500	300	27	1.2	TO-252
FGB3056-F085	560	300	24	1.1	TO-263
FGD1240G2-F085	400	100	20	1.1	TO-252

IGBTs

Device	$V_{(BR)CES}$ (V)	I_C (A)	$V_{CE(sat)}$ Max @25°C (V)	S_{CWT} (µs)	Copackaged Diode	Package(s)
FGB20N60SFD-F085	600	20	2.2	–	Stealth	D2PAK
FGH20N60SFDTU-F085	600	20	2.2	–	Stealth	TO-247
FGH40N60SFDTU-F085	600	40	2.3	–	Stealth	TO-247
FGH60N60SFDTU-F085	600	60	2.3	–	Stealth	TO-247
FGH60N60UFDTU-F085	600	60	1.9	–	Stealth	TO-247
FGH40N65UFDTU-F085	650	40	1.8	–	Stealth	TO-247
FGH40N60SMD-F085	600	40	1.9	–	Hyperfast	TO-247
FGH40N60SMDF-F085	600	40	1.9	–	Ultrafast	TO-247
FGH60N60SMD-F085	600	60	1.8	–	Hyperfast	TO-247
FGH75T65UPD-F085	650	75	1.69	5	Stealth	TO-247
FGB40T65SPD-F085	650	40	2	5	Stealth	D2PAK
FGH40T65SPD-F085	650	40	1.85	5	Stealth	TO-247
AFGHL40T65SPD	650V	40	1.85	5	Stealth	TO-247-3LD
FGY120T65SPD-F085	650	120	1.5	6	Extremefast	TP-247
FGY160T65SPD-F085	650	160	1.7	6	Extremefast	TP-247
PCGA160T65NF8	650	160	1.6	6	PCRKA16065F8	Bare Die
PCGA200T65NF8	650	200	1.53	5	PCRKA20065F8	Bare Die
PCGA300T65DF8	650	300	1.36	5	PCRKA30065F8	Bare Die
PCGA200T65NF8M1	650	200	1.53	5	PCRKA20065F8M1	Bare Die with solderable top metal
PCGA300T65DF8M1	650	300	1.36	5	PCRKA30065F8M1	Bare Die with solderable top metal
PCGLA200T75NF8	750	200	1.45	4	PCRKA20075F8	Bare Die

BIPOLAR POWER TRANSISTORS

NPN	PNP	$V_{(BR)CEO}$ Min (V)	I_C Continuous (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	P_D Watts	Package(s)
NJVMJB41C	NJVMJB42C	100	6	15	75	3	65	D2PAK
NJVMJB44H11	NJVMJB45H11	80	8	60	–	–	50	
NJVMJD50	–	400	1	30	150	10	15	DPAK
NJVMJD340	NJVMJD350	300	0.5	30	240	–	15	
NJVMJD47	–	250	1	30	150	10	15	
NJVMJD41C	NJVMJD42C	100	6	15	75	3	20	
NJVMJD243	NJVMJD253	100	4	40	180	40	12.5	
NJVMJD31C	NJVMJD32C	100	3	10	50	3	15	
NJVMJD44H11	NJVMJD45H11	80	8	60	–	–	20	
NJVMJD3055	NJVMJD2955	60	10	20	100	2	20	
NJVNJD2873	–	50	2	120	360	65	15	
–	NJVNJD1718	50	2	70	240	80	15	
NJVMJD148	–	45	4	85	375	3	20	
NJVMJD31	NJVMJD32	40	3	10	50	3	15	
–	NJVMJD210	25	5	45	180	3	12.5	
–	SMMJT350	300	0.75	30	240	–	2.75	SOT-223
SPZTA42	NSVPZTA92	300	0.5	40	–	50	1.5	
SBF720	–	300	0.1	50	–	60	1.5	
SBCP56*	SBCP53	80	1 / 1.5	40*	250*	–	1.5	
SPZT651	SPZT751	60	2	40	–	75	0.8	
–	SPZT2907A	60	0.6	100	300	200	1.5	
SPZT2222A	–	40	0.6	100	300	300	1.5	
SPZT3904	–	40	0.2	100	300	300	1.5	
NJV4031N	NJV4030P	40	5	200	500	100	2	
SBCP68	NSVBCP69	20	1	85	375	–	1.5	

***Different h_{FE} windows available.**

LOW SATURATION VOLTAGE TRANSISTORS

	NPN	PNP	$V_{(BR)CEO}$ Min (V)	I_C Peak Max (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	$V_{CE(sat)}$ @ 1.0 A Max (V)	Package(s)
Single	NSV1C301E	–	100	3	120	360	120	0.09	DPAK
	–	NSV1C300E	100	3	120	360	100	0.15	
	NSV1C201MZ4	NSV1C200MZ4	100	3	120	360	100	0.1	SOT-223
	NSV60601MZ4	NSV60600MZ4	60	12	120	360	100	0.06 / 0.07	
	NSV40301MZ4	NSV40300MZ4	40	5	200 / 175	500 / 350	–	0.1 / 0.15	
	NSV20201J	–	20	2	200	500	350	0.22	SC-89
	SNSS30201MR6	–	30	3	300	900	200	0.2	TSOP-6
	–	SNSS35200MR6	35	5	100	400	100	0.2	
	–	SMBT35200M	35	5	100	400	100	0.2	
	NSVT489AM	–	30	3	300	900	200	0.2	
	NSV60201SMTWTBG	NSV60200SMTWTBG	60	3	120	–	–	0.35	WDFN-6
	–	SNSS40600CF8	40	7	220	300	100	0.075	ChipFET
	–	NSVT1418L	160	1	100	400	-	2.00	SOT-23
	NSV40201L	NSV1C200L	100	3	120	360	–	0.09 / 0.115	
	NSV60201L	NSV60200L	60	4	150	350 / 300	100	0.14 / 0.22	
	NSV40201L	NSV40200L	40	4	200 / 250	–	150 / 100	0.06 / 0.095	
	NSV20201L	NSV20200L	20	4	200 / 250	–	150 / 100	0.05 / 0.09	
	–	NSVMMBT589L	30	2	100	300	100	0.3	
	–	NSV12100XV6	12	2	100	–	–	0.44	SOT-563
Dual	NSV40301MD	NSV40300MD	40	6	220	–	100	0.095	SOIC-8
	NSV60101DMR6T1G	NSV60100DMR6T1G	60	2	150	–	–	0.25	SC-74
	NSV60101DMTWTBG	NSV60100DMTWTBG	60	2	120	–	–	0.3	WDFN-6
	NSV60201DMTWTBG	NSV60200DMTWTBG	60	3	120	–	–	0.35	
	NSV20201DMTWTBG	NSV20200DMTWTBG	20	3	220	–	–	0.25	

SMALL SIGNAL BIPOLAR TRANSISTORS

NPN	PNP	$V_{(BR)CEO}$ Min (V)	I_C Continuous (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	Package(s)
NSVBSP19	–	350	0.1	40	–	70	
–	SMMJT350	300	0.5	30	240	–	
SPZTA42	NSVPZTA92	300	0.5	40	–	50	
SBF720	–	300	0.1	50	–	60	
SBCP56*	SBCP53*	80	1.5	40	250	–	SOT–223
–	SPZT2907A	60	0.6	100	300	200	
SPZT2222A	–	40	0.6	100	300	300	
SPZT3904	–	40	0.2	100	300	300	
SBCP68	NSVBCP69	20	1	85	375	–	
SMSD602-R	–	50	0.5	120	240	–	SC–59
SMMBTA42L	–	300	0.50	40	–	50	
–	SMMBTA92L	300	0.50	25	–	50	
SMMBT5551L	SMMBT5401L	150	0.50	60	240	100	
	NSVBSS63L	100	0.10	30	–	50	
SMMBTA06L	SMMBTA56L	80	0.50	100	–	50	
SBC846AL	–	65	0.10	110	220	100	
SBC846BL	SBC856BL	65	0.10	125	250	100	
–	SMMBT2907AL	60	0.60	50	300	200	
	NSVMMBT5087L	50	0.05	250	800	40	
SBCW66GL	–	45	1.20	160	400	100	
SBC817*	SBC807*	45	0.50	100*	600*	100	
SBCX19L	–	45	0.50	100	600	–	
NSVMMBT6429L		45	0.20	500	1250	100	
SBC847BL	SBC857BL	45	0.10	200	450	100	
SBC847CL	SBC857CL	45	0.10	420	800	100	
–	SBC857AL	45	0.10	125	250	100	
SBCW72L	–	45	0.10	200	450	–	SOT–23
SMMBT4401L	SMMBT4403L	40	0.60	100	300	200	
SMMBT2222AL	–	40	0.60	100	300	300	
SMMBT3904L	SMMBT3906L	40	0.20	100	300	250	
–	SBCW30L	32	0.10	215	500	–	
SBCW33L	–	32	0.10	420	800	–	
NSVMMBT589L		30	1.00	100	300	100	
SBC848BL	–	30	0.10	200	450	100	
NSVBC848CL	NSVBC858BL	30	0.10	220	475	100	
	NSVBC858CL	30	0.10	420	800	100	
SMMBT5088L	–	30	0.05	300	900	50	
NSVMMBTH10L	–	25	–	60	–	650	
NSVBC818-40L	SBC808-25L	25	0.50	250	600	100	
SMMBT6521L	–	25	0.10	300	600	–	
SMMBT5089L	–	25	0.05	400	1200	50	
SMMBT2369L	–	15	0.20	40	120	–	
SMMBT2369AL	–	15	0.20	40	120	–	
NSVMSD42W	–	300	0.15	40	–	–	
SMMBTA06W	SMMBTA56W	80	0.50	100	–	50	
SBC846BW	SBC856BW	65	0.10	220	475	100	
–	NSVMMBT2907AW	60	0.60	100	–	200	
–	SBC807-25W	45	0.50	160	400	100	SC–70
–	SBC807-40W	45	0.50	250	600	100	(SOT–323)
SBC847AW	–	45	0.10	110	220	100	
SBC847BW	–	45	0.10	200	450	100	
SBC847CW	–	45	0.10	420	800	100	
–	SBC857BW	45	0.10	220	475	100	

***Gain windows available.**

SMALL SIGNAL BIPOLAR TRANSISTORS

NPN	PNP	$V_{(BR)CEO}$ Min (V)	I_C Continuous (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	Package(s)
SMMBT2222AW	–	40	0.60	100	300	300	SC–70 (SOT–323)
NSVMMBT4401W	–	40	0.60	100	300	250	
SMMBT3904W	SMMBT3906W	40	0.20	100	300	250	
–	S2SA1774	50	0.10	120	560	–	SC–75
S2SC4617	–	50	0.10	120	560	180	
NSVBC847BT	NSVBC857BT	45	0.10	220	475	100	
NSVMBT2222AT	–	40	0.60	100	–	300	
SMMBT3904T	NSVMMBT3906T	40	0.20	100	300	180	
NSVBC846BW	NSVBC858AW	30	0.10	125	250	100	
NSVMMBT5551M3	NSVMMBT5401M3	160	0.06	60	240	100	SOT–723
NSVBC846BM3	NSVBC856BM3	65	0.10	200	450	100	
–	NSVMMBT2907AM3	60	0.60	100	300	200	
NSV2SC5658M3	NSV2SA2029M3	50	0.10	120	560	100	
NSVMMBT2222AM3	–	40	0.60	75	375	300	
SHN1B01FDW1	Dual Complementary	50	0.2	200	400	0.38	SC–74
SBC846BDW1	Dual NPN	65	0.1	200	450	100	SC–88 (SOT–363)
SBC847CDW1		45	0.1	420	800	100	
NSVT45011MW6		45	0.1	200	500	100	
SBC847BDW1		45	0.1	200	450	100	
NSVBT2222ADW1		40	0.6	100	300	300	
SMBT3904DW1		40	0.2	100	300	300	
NSVBC848CDW1		30	0.1	420	800	100	
SBC856BDW1	Dual PNP	65	0.1	220	475	100	
SBC857BDW1		45	0.1	220	475	100	
NSVT45010MW6		45	0.1	220	475	100	
SMBT3906DW1		40	0.2	100	300	250	
SBC846BPDW1	Dual Complementary	65	0.1	200	475	100	
SBC847BPDW1		45	0.1	200	475	100	
SMBT3946DW1		40	100	100	300	250	
NSVEMX1DXV6	Dual NPN	50	0.1	120	560	–	SOT–563
SBC847CDXV6		45	0.1	420	800	–	
NSVT3904DXV6		40	0.2	100	300	300	
NSVT30010MXV6	Dual PNP	30	0.1	420	800	100	
SBC847BPDXV6	Dual Complementary	45	0.1	200	475	100	

***Gain windows available.**

RF BJTs

Device	Maximum Ratings		f_T Typ (GHz)	Package(s)
	V_{CE} (V)	I_C (mA)		
NSVF3007SG3	12	30	8 @ VCE = 5 V, IC = 10 mA	SOT-323
NSVF4009SG4	3.5	40	25 @ VCE = 3 V, IC = 20 mA	SOT-343
NSVF4015SG4	12	100	10 @ VCE = 5 V, IC = 50 mA	
NSVF4017SG4	12	100	10 @ VCE = 5 V, IC = 50 mA	
NSVF4020SG4	8	150	16.5 @ VCE = 5 V, IC = 50 mA	
NSVF6001SB6	12	100	6.7 @ VCE = 5 V, IC = 30 mA	SC-74
NSVF6003SB6	12	150	7.0 @ VCE = 5 V, IC = 50 mA	
NSVF5488SK	10	70	7.0 @ VCE = 5 V, IC = 20 mA	SC-81
NSVF5490SK	10	30	8 @ VCE = 5 V, IC = 10 mA	
NSVF5501SK	10	70	5.5 @ VCE = 5 V, IC = 20 mA	

DIGITAL TRANSISTORS

	NPN Device	PNP Device	$V_{(BR)CEO}$ Min (V)	I_C Continuous (mA)	h_{FE} Min	R1 (Ω)	R2 (Ω)	Package(s)
SINGLE	–	NSV9435	30	3000	125	–	10	SOT-223
	SMUN2240	–	50	100	160	47	∞	SC-59
	SMUN2213	SMUN2113	50	100	80	47	47	
	–	NSVMUN2237	50	100	80	47	22	
	NSVMUN2212	–	50	100	60	22	22	
	SMUN2214	SMUN2114	50	100	80	10	47	
	SMUN2211	SMUN2111	50	100	35	10	10	
	SMUN2216	–	50	100	160	4.7	∞	
	NSVMUN2233	–	50	100	80	4.7	47	
	SMUN2232	–	50	100	15	4.7	4.7	
	SMUN2230	–	50	100	3	1	1	
	SMMUN2213L	SMMUN2113L	50	100	80	47	47	SOT-23
	SMMUN2234L	SMMUN2134L	50	100	80	22	47	
	NSVMMUN2212L	–	50	100	60	22	22	
	SMMUN2215L	–	50	100	160	10	∞	
	SMMUN2214L	SMMUN2114L	50	100	80	10	47	
	SMMUN2211L	SMMUN2111L	50	100	35	10	10	
	SMMUN2216L	SMMUN2116L	50	100	160	4.7	∞	
	SMMUN2233L	–	50	100	80	4.7	47	
	–	NSVMMUN2133L	50	100	80	4.7	47	
	NSVMMUN2217L	–	50	100	50	4.7	10	
	NSVMMUN2232L	NSVMMUN2132L	50	100	15	4.7	4.7	
	SMMUN2238L	–	50	100	160	2.2	∞	
	–	NSVMMUN2131L	50	100	8	2.2	2.2	
	NSVMMUN2230L	–	50	100	3	1	1	
	SMUN5236	SMUN5136	50	100	80	100	100	SC-70 (SOT-323)
	SMUN5213	SMUN5113	50	100	80	47	47	
	SMUN5212	SMUN5112	50	100	60	22	22	
	SMUN5211	SMUN5111	50	100	35	10	10	
	SMUN5214	SMUN5114	50	100	80	10	47	
	SMUN5215	SMUN5115	50	100	160	10	∞	
	SMUN5216	–	50	100	160	4.7	∞	
	SMUN5232	–	50	100	15	4.7	4.7	
	SMUN5233	SMUN5133	50	100	80	4.7	47	
	SMUN5235	–	50	100	80	2.2	47	
	–	SMUN5131	50	100	8	2.2	2.2	
	–	NSVDTA115EE	50	100	80	100	100	SC-75
	SDTC144EE	NSVDTA144EE	50	100	80	47	47	
	NSVDTC144WE		50	100	80	47	22	
	SDTC124EE	–	50	100	60	22	22	
	SDTC114YE	SDTA114YE	50	100	80	10	47	
	SDTC114EE	NSVDTA114EE	50	100	35	10	10	
	NSVDTC143ZE	NSVDTA143ZE	50	100	80	4.7	47	
	NSVDTC123JE	–	50	100	80	2.2	47	
	NSVDTC144TM3		50	100	160	47	∞	SOT-723
	NSVDTC144EM3	–	50	100	80	47	47	
	NSVDTC114YM3	NSVDTA114YM3	50	100	80	10	47	
	–	NSVDTA114EM3	50	100	35	10	10	
	NSVDTC143ZM3	NSVDTA1432ZM3	50	100	80	4.7	47	
	NSVDTC143EM3	NSVDTA143EM3	50	100	15	4.7	4.7	
	NSVDTC123JM3	–	50	100	80	2.2	47	
	NSVDTC123EM3	NSVDTA123EM3	50	100	8	2.2	2.2	
	NSVDTC113EM3	NSVDTA113EM3	50	100	3	1	1	

DIGITAL TRANSISTORS

	NPN Device	PNP Device	$V_{(BR)CEO}$ Min (V)	I_C Continuous (mA)	h_{FE} Min	R1 (Ω)	R2 (Ω)	Package(s)
DUAL	SMUN5213DW1	SMUN5113DW1	50	100	80	47	47	SC-88
	SMUN5237DW1	NSVMUN5137DW1	50	100	80	47	22	
	NSVMUN5212DW1	SMUN5112DW1	50	100	60	22	22	
	–	SMUN5115DW1	50	100	160	10	∞	
	SMUN5214DW1	SMUN5114DW1	50	100	80	10	47	
	SMUN5211DW1	SMUN5111DW1	50	100	35	10	10	
	SMUN5216DW1	SMUN5116DW1	50	100	160	4.7	∞	
	SMUN5233DW1	–	50	100	80	4.7	47	
	SMUN5232DW1	–	50	100	15	4.7	4.7	
	SMUN5235DW1	–	50	100	80	2.2	47	
	SMUN5231DW1	SMUN5131DW1	50	100	8	2.2	2.2	
	SMUN5230DW1	–	50	100	3	1	1	
	NSVBC143ZDXV6	NSVBA143ZDXV6	50	100	80	4.7	47	SOT-563
	NSVBC114EDXV6	NSVBA114EDXV6	50	100	80	10	10	
	NSVBC124EDXV6	–	50	100	60	22	22	
	NSVBC114YDXV6	NSVBA114YDXV6	50	100	80	10	47	
	NSVBC124XDXV6	–	50	100	60	22	47	

	Device	Type	$V_{(BR)CEO}$ Min (V)	I_C Continuous (mA)	h_{FE} Min	R1 (Ω)	R2 (Ω)	Package(s)
Combinational	SMUN5311DW1	Complementary	50	100	35	10	10	SC-88
	SMUN5312DW1		50	100	80	22	22	
	SMUN5313DW1		50	100	80	47	47	
	SMUN5314DW1		50	100	80	10	47	
	SMUN5315DW1		50	100	160	10	∞	
	SMUN5330DW1		50	100	3	1	1	
	NSVMUN5332DW1		50	100	15	4.7	4.7	
	NSVMUN5333DW1		50	100	80	4.7	47	
	NSVMUN5334DW1		50	100	80	22	47	
	SMUN5335DW1		50	100	80	2.2	47	
	NSVBC114EPDXV6		50	100	80	10	10	SOT-563
	NSVBC114YPDXV6		50	100	80	10	47	
	NSVBC123JPDXV6		50	100	80	2.2	47	
	NSVBC124EPDXV6		50	100	80	22	22	
	NSVBC124XPDXV6		50	100	80	22	47	
	NSVBC143TPDXV6		50	100	160	4.7	∞	
	NSVBC143ZPDXV6		50	100	80	4.7	47	
	NSVBC144EPDXV6		50	100	80	47	47	
	NSVEMD4DXV6		50	100	80	10	47	
	NSVUMC2N	Digital PNP Trx Base to Collecter of Digital NPN Trx	50	100	100	22	22	SC-88A
	NSVUMC3N		50	100	35	10	10	
	NSVUMC5N		50	100	20	47 / 4.7	47 / 10	
	NSVB1706DMW5	Dual NPN, Common Emitter	50	100	80	4.7	47	

DARLINGTON TRANSISTORS

NPN	PNP	$V_{(BR)CEO}$ Min (V)	I_C Continuous (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	Package(s)
NJVNJD35N04	–	350	4	2k	–	90	DPAK
–	NJVMJD128	120	8	1k	12k	4	
NJVMJD127	–	100	8	1K	12k	4	
NJVMJD122	–	100	8	1k	12k	4	
NJVMJD112	NJVMJD117	100	2	1k	12k	25	
NJVMJD44E3	–	80	10	1k	–	–	
NJVMJD6039	–	80	2	1k	–	–	
NJVBUB323Z	–	350	20	500	3400	2	D2PAK
MJB5742	–	400	16	200	–	–	
SBSP52	–	80	1	2	–	–	SOT-223
SMMBT6427L	–	40	0.5	20k	200k	130	SOT-23
–	SMMBTA64L	30	0.5	20k	–	125	
SMMBTA13L	–	30	0.3	10k	–	125	
SMMBTA14L	–	30	0.3	20k	–	125	

SCHOTTKY RECTIFIERS

Device	V_{RRM} (V)	$I_{O(rec)}$ (A)	V_F Max (V)	I_R Max (mA)	I_{FSM} (A)	Package(s)
NRVB0530	0.5	30	0.43	0.13	5.5	SOD-123
NRVB140SF	1	40	0.55	0.5	30	SOD-123 FL
NRVB140ESF	1	40	0.56	0.03	30	SOD-123 FL
NRVTS245ESF*	2	45	0.65	0.075	50	SOD-123 FL
NRVTS2H60ESF *	2	60	0.65	0.012	25	SOD-123 FL
NRVB1H100SF	1	100	0.76	0.04	50	SOD-123 FL
NRVB2H100SF	2	100	0.84	0.04	50	SOD-123 FL
NRVTSM245E*	2	45	0.65	0.075	50	POWERMITE®
NRVTSM260E*	2	60	0.65	0.012	50	POWERMITE
MBRM1H100	1	100	0.76	0.02	50	POWERMITE
NRVBM2H100	2	100	0.84	0.02	50	POWERMITE
NRVBA140	1	40	0.55	0.5	30	SMA
NRVBA160	1	60	0.51	0.2	60	SMA
NRVBA1H100	1	100	0.76	0.04	50	SMA
NRVBA2H100	2	100	0.79	0.008	130	SMA
NRVBA340	3	40	0.45	0.3	100	SMA
NRVTSA4100E*	4	100	0.68	0.009	150	SMA
MBRAF1100	1	100	0.75	0.5	50	SMA-FL
NRVBAF1540	1.5	40	0.46	0.8	40	SMA-FL
MBRAF260	2	60	0.63	0.2	60	SMA-FL
MBRAF2H100	2	100	0.79	0.05	130	SMA-FL
NRVBAF360	3	60	0.63	0.03	125	SMA-FL
NRVBAF3200	3	200	0.84	1	100	SMA-FL
NRVBAF440	4	40	0.485	0.3	100	SMA-FL
NRVTSAF5100E*	5	100	0.69	0.009	50	SMA-FL
SBRS8130L	1	30	0.395	1	40	SMB
SBRS8140	1	40	0.6	1	40	SMB
SBRS81100	1	100	0.75	0.5	50	SMB
MBRS1540	1.5	40	0.46	0.8	40	SMB
NRVBS240L	2	40	0.43	2	25	SMB
NRVBS260	2	60	0.63	0.2	60	SMB
NBRS2H100	2	100	0.79	0.008	130	SMB
NRVBS360B	3	60	0.74	0.15	125	SMB
NRVBS3200	3	200	0.84	1	100	SMB
NRVTSS5100E*	5	100	0.69	0.009	50	SMB
SBRS8340	3	40	0.5	2	80	SMC
NRVBS360	3	60	0.74	0.15	125	SMC
NRVBS3100	3	100	0.79	0.05	130	SMC
NRVBS3201	3	200	0.84	1	100	SMC
NRVBS4201	4	200	0.86	1	100	SMC
NRVBS540	5	40	0.5	0.3	190	SMC
SBRD8360	3	60	0.6	0.2	75	DPAK
NBRD5H100	5	100	0.71	0.0035	105	DPAK
NRVBD640CT	6	40	0.9	0.1	75	DPAK
NRVBD650CT	6	50	0.7	0.1	75	DPAK
NRVBD660CT	6	60	0.7	0.1	75	DPAK
NRVBD1035CTL	10	35	0.56	2	50	DPAK

*** Trench Schottky rectifiers for improved efficiency and lower operating temperatures.**

SCHOTTKY RECTIFIERS

Device	V_{RRM} (V)	$I_{O(rec)}$ (A)	V_F Max (V)	I_R Max (mA)	I_{FSM} (A)	Package(s)
SBRD81045	10	45	0.57	0.1	70	DPAK
NBRB8H100	8	100	0.71	0.0045	250	D2PAK
SBRB1045	10	45	0.84	0.1	150	D2PAK
NRVBB1060	10	60	0.8	0.1	150	D2PAK
SBRB1545CT	15	45	0.84	0.1	150	D2PAK
NRVBB1645	16	45	0.63	0.2	150	D2PAK
NRVBB2060CT	20	60	0.95	0.2	150	D2PAK
NTSB20100CT*	20	100	0.83	0.8	150	D2PAK
NTSB20U100CT*	20	100	0.79	0.8	150	D2PAK
NTSB20120CT*	20	120	1.1	0.7	120	D2PAK
SBRB20200CT	20	200	1	1	150	D2PAK
SBRB2545CT	25	45	0.82	0.2	150	D2PAK
NRVBB30H60CT	30	60	0.62	0.3	260	D2PAK
NRVTSB40200CT	40	200	1.45	100	250	D2PAK
NRVB440MFS	4	40	0.63	0.8	40	SO-8 FL / DFN-5
NRVB460MFS	4	60	0.74	0.2	40	SO-8 FL / DFN-5
NRVB540MFS	5	40	0.57	0.06	40	SO-8 FL / DFN-5
NRVB560MFS	5	60	0.75	0.15	60	SO-8 FL / DFN-5
NRVB5100MFS	5	100	0.9	0.05	60	SO-8 FL / DFN-5
NRVB5H100MFS	5	100	0.73	0.1	200	SO-8 FL / DFN-5
NRVB860MFS	8	60	0.8	0.15	150	SO-8 FL / DFN-5
NRVB8H100MFS	8	100	0.9	0.3	75	SO-8 FL / DFN-5
NRVB1240MFS	12	40	0.68	0.5	150	SO-8 FL / DFN-5
NRVB2045EMFS	20	45	0.64	0.4	400	SO-8 FL / DFN-5
NRVB30H100MFS	30	100	0.9	0.1	300	SO-8 FL / DFN-5
NRVTS1045EMFS*	10	45	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS1245EMFS*	12	45	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS1545EMFS*	15	45	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS560EMFS*	5	60	0.61	0.03	150	SO-8 FL / DFN-5
NRVTS660MFD *	6 (3x2)	60	0.63	0.055	80	SO-8 FL Dual
NRVTS860EMFS*	8	60	0.62	0.045	150	SO-8 FL / DFN-5
NRVTS1260EMFS*	12	60	0.6	0.05	210	SO-8 FL / DFN-5
NRVTS10100EMFS*	10	100	0.72	0.05	200	SO-8 FL / DFN-5
NRVTS12100EMFS*	12	100	0.73	0.055	200	SO-8 FL / DFN-5
NRVTS8H120EMFS *	10	120	0.85	0.05	150	SO-8 FL / DFN-5
NRVTS10120EMFS*	10	120	0.82	0.03	200	SO-8 FL / DFN-5
NRVTS12120MFS*	12	120	0.83	0.075	200	SO-8 FL / DFN-5
NRVTS12120EMFS*	12	120	0.83	0.055	200	SO-8 FL / DFN-5

*** Trench Schottky rectifiers for improved efficiency and lower operating temperatures.**

ULTRAFAST RECTIFIERS

Device	V_{RRM} (V)	$I_{O(rec)}$ (A)	V_F Max (V)	I_R Max (μA)	I_{FSM} (A)	t_{rr} Max (ns)	Package(s)
SURA8110	100	1	0.875	2.0	50	30	SMA
SURA8210	100	2	0.94	2.0	50	30	SMA
SURS8110	100	1	0.875	2.0	40	35	SMB
SURS8210	100	2	0.94	2.0	50	30	SMB
NRVHP120SF	200	1	1	0.5	30	25	SOD-123FL
NRVHP220SF	200	2	1.05	0.5	40	50	SOD-123FL
NRVHP620MFD	200	6 (3 x 2)	1	35.0	80	25	SO-8 FL, DFN-5
NRVHP8H200MFD	200	8 (4 x 2)	0.91	0.5	80	30	SO-8 FL, DFN-5
NRVHP420LFS	200	4	0.95	0.5	125	50	LFPAK
NRVHP620LFS	200	6	0.95	0.5	150	50	LFPAK
NRVHP820LFS	200	8	1	1	175	35	LFPAK
NRVHPM120	200	1	1	0.5	30	25	POWERMITE
NRVHPM220	200	2	1.05	0.5	40	50	POWERMITE
NRVUB1620CT	200	16	0.975	5.0	100	35	D2PAK
NRVUB1620CTR	200	16	1.2	5.0	100	85	D2PAK
NRVUD620CT	200	6	1.2	5.0	63	35	DPAK
SSRD8620CT	200	6	1.15	5.0	50	45	DPAK
SSRD8620CTR	200	6	1.3	1.0	45	75	DPAK
SURA8120	200	1	0.875	2.0	40	35	SMA
SURA8220	200	2	0.95	2.0	40	35	SMA
SURD8320	200	3	0.95	5.0	75	35	DPAK
SURS8120	200	1	0.875	2.0	40	35	SMB
SURS8220	200	2	0.95	2.0	40	25	SMB
SURS8320	200	3	0.875	5.0	75	35	SMC
NRVHPAF320	200	3	1	0.5	110	30	SMA-FL
SURD8530	300	5	1.05	5.0	75	50	DPAK
NRVHP140SF	400	1	1.25	0.5	25	40	SOD-123FL
SURA8140	400	1	1.1	5.0	35	65	SMA
NRVUB1660CT	600	16	1.5	10.0	100	60	D2PAK
SURHD8560	600	5	2.7	10.0	50	30	DPAK
SURHS8160	600	1	2.4	20.0	15	35	SMB
SURS8160	600	1	1.25	5.0	35	75	SMB
SURS8360	600	3	1.25	10.0	75	75	SMC

SiC DIODES

Device	Configuration	V_{RRM} (V)	$I_{F(ave)}$ (A)	V_F Max (V)	I_{FSM} (A)	I_R Max (μA)	Package(s)
FFSB20120A-F085	with Schottky Diode	1200	20	1.75	135	400	D2PAK-3 / TO-263-2
FFSH20120A-F085	with Schottky Diode	1200	20	1.75	135	200	TO-247-2
FFSH40120ADN-F085	Dual Common Cathode	1200	20	1.75	135	200	TO-247-3
FFSB10120A-F085	with Schottky Diode	1200	10	1.75	90	400	D2PAK-3 / TO-263-2
FFSH10120A-F085	with Schottky Diode	1200	10	1.75	90	200	TO-247-2
FFSH20120ADN-F085	Dual Common Cathode	1200	10	1.75	96	200	TO-247-3
FFSH5065B-F085	with Schottky Diode	650	50	1.7	189	160	TO-247-2LD
FFSH4065BDN-F085	Dual Common Cathode	650	40	1.7	127	160	TO-247-3LD
FFSB3065B-F085	with Schottky Diode	650	30	1.7	120	120	D2PAK-3 / TO-263-2
FFSH3065B-F085	with Schottky Diode	650	30	1.7	110	160	TO-247-2
FFSP3065B-F085	with Schottky Diode	650	30	1.7	120	160	TO-220-2
FFSB2065B-F085	with Schottky Diode	650	20	1.7	88	160	D2PAK-3 / TO-263-2
FFSB2065BDN-F085	with Schottky Diode	650	20	1.75	45	160	D2PAK-3 / TO-263-2
FFSH2065B-F085	with Schottky Diode	650	20	1.7	84	160	TO-247-2LD
FFSP2065B-F085	with Schottky Diode	650	20	1.7	88	160	TO-220-2
FFSH2065BDN-F085	Dual Common Cathode	650	20	1.7	42	160	TO-247-3
FFSB1065B-F085	with Schottky Diode	650	10	1.7	49	160	D2PAK-3 / TO-263-2
FFSD1065B-F085	with Schottky Diode	650	10	1.7	45	160	DPAK-3 / TO-252-3
FFSH1065B-F085	with Schottky Diode	650	10	1.7	42	160	TO-247-2LD
FFSP1065B-F085	with Schottky Diode	650	10	1.7	45	160	TO-220-2

ZENER DIODE ARRAYS

	Device	V_{BR} Typ (V)	V_{RWM} Max (V)	I_R Max (μA)	I_{pp} Max* (A)	V_C Max (V)	Package(s)
Dual Common Cathode	SZMMBZ15VDL	15	12.8	0.1	1.9	21.2	SOT-23
	SZMMBZ27VCL	27	22	0.05	1	38	
Dual Common Anode	SZMMBZ5V6AL	5.6	3	5	3	8	
	SZMMBZ6V2AL	6.2	3	0.5	2.76	8.7	
	SZMMBZ6V8AL	6.8	4.5	0.5	2.5	9.6	
	SZMMBZ9V1AL	9.1	6	0.3	1.7	14	
	SZMMBZ12VAL	12	8.5	0.2	2.35	17	
	SZMMBZ15VAL	15	12	0.05	1.9	21	
	SZMMBZ16VAL	15.20	16	16.80	1.7	23	
	SZMMBZ16VTAL	15.68	16	16.32	1.7	23	
	SZMMBZ18VAL	18	14.5	0.05	1.6	25	
	SZMMBZ20VAL	20	17	0.05	1.4	28	
	SZMMBZ27VAL	27	22	0.05	1	40	
	SZMMBZ33VAL	33	26	0.05	0.87	46	
	SZMMBZ47VAL	44.65	47	49.35	0.74	54	
	SZMMBZ47VTAL	46.06	47	47.94	0.74	54	
Dual Common Cathode	SZMMBZ27VCW	27	22	0.05	1	38	SC-70
Dual Common Anode	SZMMBZ27VAW	27	22	0.05	1	40	
Quad	SZMMQA5V6	5.6	–	–	–	–	SC-74
	SZMMQA6V2	6.2	–	–	–	–	
	SZMMQA6V8	6.8	–	–	–	–	
	SZMMQA15V	15	–	–	–	–	
	SZMMQA20V	20	–	–	–	–	
	SZMMQA27V	27	–	–	–	–	
	SZMMQA33V	33	–	–	–	–	
	SZMSQA6V1	6.1	–	–	–	–	SC-88

*** I_{PP} Max rating based on 10 x 1000 μs surge waveform.**

ZENER DIODES

VZ Typ	225 mW		225 mW		250 mW		300 mW		500 mW			500 mW				1.5 W	3 W
Volts	SOT-23 (5%)	SOT-23 (2%)	SOT-23 (5%)	SOT-23 (2%)	X2DFNW2 (5%)	X2DFNW2 (2%)	SOD−323 (5%)	SOD−323 (2%)	SOD−523 (5%)	SOD−523 (2%)	SOD−523 (Low I_{ZT})	SOD-523 (Low I_{ZT})	SOD-123			SMA	SMB
2.4	SZNZ9F2V4	SZNZ9F2V4	SZBZX84C2V4L	–	SZNZ8F2V4*	SZNZ8F2V4S*	SZMM3Z2V4	–	SZMM5Z2V4	SZMM5Z2V4	SZMM5Z4680*	SZMMSZ4680	SZMMSZ2V4	–	–	–	–
2.7	SZNZ9F2V7	SZNZ9F2V7	SZBZX84C2V7L	–	SZNZ8F2V7*	SZNZ8F2V7S*	SZMM3Z2V7	–	SZMM5Z2V7	SZMM5Z2V7	SZMM5Z4681*	SZMMSZ4681	SZMMSZ2V7	SZMMSZ5223B	–	–	–
3	SZNZ9F3V0	SZNZ9F3V0	SZBZX84C3V0L	–	SZNZ8F3V0*	SZNZ8F3V0S*	SZMM3Z3V0	SZMM3Z3V0	SZMM5Z3V0	–	SZMM5Z4683*	SZMMSZ4683	SZMMSZ3V0	SZMMSZ5225B	–	–	–
3.3	SZNZ9F3V3	SZNZ9F3V3	SZBZX84C3V3L	–	SZNZ8F3V3*	SZNZ8F3V3S*	SZMM3Z3V3	SZMM3Z3V3	SZMM5Z3V3	SZMM5Z3V3	SZMM5Z4684*	SZMMSZ4684	SZMMSZ3V3	SZMMSZ5226B	SZ1SMA5913B	SZ1SMB5913B	1SMB5913B
3.6	SZNZ9F3V6	SZNZ9F3V6	SZBZX84C3V6L	–	SZNZ8F3V6*	SZNZ8F3V6S*	SZMM3Z3V6	–	SZMM5Z3V6	SZMM5Z3V6	SZMM5Z4685*	SZMMSZ4685	SZMMSZ3V6	–	–	SZ1SMB5914B	1SMB5914B
3.9	SZNZ9F3V9	SZNZ9F3V9	SZBZX84C3V9L	–	SZNZ8F3V9*	SZNZ8F3V9S*	SZMM3Z3V9	SZMM3Z3V9	–	–	SZMM5Z4686*	SZMMSZ4686	SZMMSZ3V9	–	–	SZ1SMB5915B	1SMB5915B
4.3	SZNZ9F4V3	SZNZ9F4V3	SZBZX84C4V3L	–	SZNZ8F4V3*	SZNZ8F4V3S*	SZMM3Z4V3	SZMM3Z4V3	SZMM5Z4V3	SZMM5Z4V3	SZMM5Z4687*	SZMMSZ4687	–	–	SZ1SMA5914B	–	–
4.7	SZNZ9F4V7	SZNZ9F4V7	SZBZX84C4V7L	SZBZX84B4V7L	SZNZ8F4V7*	SZNZ8F4V7S*	SZMM3Z4V7	SZMM3Z4V7	SZMM5Z4V7	SZMM5Z4V7	SZMM5Z4688*	SZMMSZ4688	–	SZMMSZ5230B	SZ1SMA5917B	SZ1SMB5917B	1SMB5917B
5.1	SZNZ9F5V1	SZNZ9F5V1	SZBZX84C5V1L	SZBZX84B5V1L	SZNZ8F5V1*	SZNZ8F5V1S*	SZMM3Z5V1	SZMM3Z5V1	SZMM5Z5V1	SZMM5Z5V1	SZMM5Z4689*	SZMMSZ4689	SZMMSZ5V1	SZMMSZ5231B	SZ1SMA5918B	SZ1SMB5918B	1SMB5918B
5.6	SZNZ9F5V6	SZNZ9F5V6	SZBZX84C5V6L	SZBZX84B5V6L	SZNZ8F5V6*	SZNZ8F5V6S*	SZMM3Z5V6	SZMM3Z5V6	SZMM5Z5V6	SZMM5Z5V6	SZMM5Z4690*	SZMMSZ4690	SZMMSZ5V6	SZMMSZ5232B	SZ1SMA5919B	SZ1SMB5919B	1SMB5919B
6.2	SZNZ9F6V2	SZNZ9F6V2	SZBZX84C6V2L	SZBZX84B6V2L	SZNZ8F6V2*	SZNZ8F6V2S*	SZMM3Z6V2	SZMM3Z6V2	SZMM5Z6V2	SZMM5Z6V2	SZMM5Z4691*	SZMMSZ4691	SZMMSZ6V2	SZMMSZ5234B	SZ1SMA5920B	SZ1SMB5920B	1SMB5920B
6.8	SZNZ9F6V8	SZNZ9F6V8	SZBZX84C6V8L	SZBZX84B6V8L	SZNZ8F6V8*	SZNZ8F6V8S*	SZMM3Z6V8	SZMM3Z6V8	SZMM5Z6V8	SZMM5Z6V8	SZMM5Z4692*	SZMMSZ4692	SZMMSZ6V8	SZMMSZ5235B	SZ1SMA5921B	SZ1SMB5921B	1SMB5921B
7.5	SZNZ9F7V5	SZNZ9F7V5	SZBZX84C7V5L	SZBZX84B7V5L	SZNZ8F7V5*	SZNZ8F7V5S*	SZMM3Z7V5	SZMM3Z7V5	SZMM5Z7V5	SZMM5Z7V5	SZMM5Z4693*	SZMMSZ4693	SZMMSZ7V5	SZMMSZ5236B	SZ1SMA5922B	SZ1SMB5922B	1SMB5922B
8.2	SZNZ9F8V2	SZNZ9F8V2	SZBZX84C8V2L	SZBZX84B8V2L	SZNZ8F8V2*	SZNZ8F8V2S*	SZMM3Z8V2	SZMM3Z8V2	SZMM5Z8V2	SZMM5Z8V2	SZMM5Z4694*	SZMMSZ4694	SZMMSZ8V2	SZMMSZ5237B	SZ1SMA5923B	SZ1SMB5923B	1SMB5923B
9.1	SZNZ9F9V1	SZNZ9F9V1	SZBZX84C9V1L	SZBZX84B9V1L	SZNZ8F9V1*	SZNZ8F9V1S*	SZMM3Z9V1	SZMM3Z9V1	SZMM5Z9V1	SZMM5Z9V1	SZMM5Z4696*	SZMMSZ4696	SZMMSZ9V1	–	SZ1SMA5924B	SZ1SMB5924B	1SMB5924B
10	SZNZ9F10V	SZNZ9F10V	SZBZX84C10L	–	SZNZ8F10V*	SZNZ8F10VS*	SZMM3Z10V	SZMM3Z10V	SZMM5Z10V	–	SZMM5Z4697*	SZMMSZ4697	SZMMSZ10	SZMMSZ5240B	SZ1SMA5925B	SZ1SMB5925B	1SMB5925B
11	SZNZ9F11V	SZNZ9F11V	SZBZX84C11L	–	SZNZ8F11V*	SZNZ8F11VS*	SZMM3Z11V	–	SZMM5Z11V	–	SZMM5Z4698*	SZMMSZ4698	SZMMSZ11	–	–	SZ1SMB5926B	1SMB5926B
12	SZNZ9F12V	SZNZ9F12V	SZBZX84C12L	SZBZX84B12L	SZNZ8F12V*	SZNZ8F12VS*	SZMM3Z12V	SZMM3Z12V	SZMM5Z12V	SZMM5Z12V	SZMM5Z4699*	SZMMSZ4699	SZMMSZ12	SZMMSZ5242B	SZ1SMA5927B	SZ1SMB5927B	1SMB5927B
13	SZNZ9F13V	SZNZ9F13V	SZBZX84C13L	–	SZNZ8F13V*	SZNZ8F13VS*	SZMM3Z13V	SZMM3Z13V	SZMM5Z13V	–	SZMM5Z4700*	SZMMSZ4700	SZMMSZ13	SZMMSZ5243B	SZ1SMA5928B	SZ1SMB5928B	1SMB5928B
14	–	–	–	–	–	–	–	–	–	–	SZMM5Z4701*	SZMMSZ4701	–	SZMMSZ5244B	SZ1SMA5929B	–	–
15	SZNZ9F15V	SZNZ9F15V	SZBZX84C15L	SZBZX84B15L	SZNZ8F15V*	SZNZ8F15VS*	SZMM3Z15V	SZMM3Z15V	SZMM5Z15V	–	SZMM5Z4702*	SZMMSZ4702	SZMMSZ15	SZMMSZ5245B	–	SZ1SMB5929B	1SMB5929B
16	SZNZ9F16V	SZNZ9F16V	SZBZX84C16L	SZBZX84B16L	SZNZ8F16V*	SZNZ8F16VS*	SZMM3Z16V	SZMM3Z16V	SZMM5Z16V	SZMM5Z16V	SZMM5Z4703*	SZMMSZ4703	SZMMSZ16	SZMMSZ5246B	SZ1SMA5930B	SZ1SMB5930B	1SMB5930B
17	–	–	–	–	–	–	–	–	–	–	SZMM5Z4704*	SZMMSZ4704	–	SZMMSZ5247B	–	–	–
18	SZNZ9F18V	SZNZ9F18V	SZBZX84C18L	SZBZX84B18L	SZNZ8F18V*	SZNZ8F18VS*	SZMM3Z18V	SZMM3Z18V	SZMM5Z18V	SZMM5Z18V	SZMM5Z4705*	SZMMSZ4705	SZMMSZ18	SZMMSZ5248B	SZ1SMA5931B	SZ1SMB5931B	1SMB5931B
19	–	–	–	–	–	–	–	–	–	–	SZMM5Z4706*	SZMMSZ4706	–	SZMMSZ5249B	–	–	–
20	SZNZ9F20V	–	SZBZX84C20L	–	SZNZ8F20V*	SZNZ8F20VS*	SZMM3Z20V	–	SZMM5Z20V	–	SZMM5Z4707*	SZMMSZ4707	SZMMSZ20	SZMMSZ5250B	SZ1SMA5932B	SZ1SMB5932B	1SMB5932B
22	SZNZ9F22V	–	SZBZX84C22L	SZBZX84B22L	SZNZ8F22V*	SZNZ8F22VS*	SZMM3Z22V	SZMM3Z22V	SZMM5Z22V	–	SZMM5Z4708*	SZMMSZ4708	SZMMSZ22	–	SZ1SMA5933B	SZ1SMB5933B	1SMB5933B
24	SZNZ9F24V	–	SZBZX84C24L	SZBZX84B24L	SZNZ8F24V*	SZNZ8F24VS*	SZMM3Z24V	SZMM3Z24V	SZMM5Z24V	–	SZMM5Z4709*	SZMMSZ4709	SZMMSZ24	SZMMSZ5252B	SZ1SMA5934B	SZ1SMB5934B	1SMB5934B
27	–	–	SZBZX84C27L	SZBZX84B27L	SZNZ8F27V*	SZNZ8F27VS*	SZMM3Z27V	SZMM3Z27V	SZMM5Z27V	–	SZMM5Z4711*	SZMMSZ4711	SZMMSZ27	SZMMSZ5254B	SZ1SMA5935B	SZ1SMB5935B	1SMB5935B
30	–	–	SZBZX84C30L	–	–	–	SZMM3Z30V	SZMM3Z30V	SZMM5Z30V	–	SZMM5Z4713*	SZMMSZ4713	SZMMSZ30	SZMMSZ5256B	SZ1SMA5936B	SZ1SMB5936B	1SMB5936B
33	–	–	SZBZX84C33L	–	SZNZ8F33V*	SZNZ8F33VS*	SZMM3Z33V	SZMM3Z33V	SZMM5Z33V	–	SZMM5Z4714*	SZMMSZ4714	SZMMSZ33	SZMMSZ5257B	SZ1SMA5937B	SZ1SMB5937B	1SMB5937B
36	–	–	SZBZX84C36L	–	–	–	SZMM3Z36V	SZMM3Z36V	SZMM5Z36V	–	SZMM5Z4715*	SZMMSZ4715	SZMMSZ36	SZMMSZ5258B	SZ1SMA5938B	SZ1SMB5938B	1SMB5938B
39	–	–	SZBZX84C39L	–	–	–	SZMM3Z39V	SZMM3Z39V	SZMM5Z39V	–	–	–	SZMMSZ39	SZMMSZ5259B	SZ1SMA5939B	SZ1SMB5939B	1SMB5939B
43	–	–	SZBZX84C43L	–	–	–	SZMM3Z43V	–	SZMM5Z43V	–	SZMM5Z4717*	SZMMSZ4717	–	SZMMSZ5260B	SZ1SMA5940B	SZ1SMB5940B	1SMB5940B
47	–	–	SZBZX84C47L	–	SZNZ8F47V*	SZNZ8F47VS*	SZMM3Z47V	–	SZMM5Z47V	–	–	–	–	SZMMSZ5261B	SZ1SMA5941B	SZ1SMB5941B	1SMB5941B
51	–	–	SZBZX84C51L	–	–	–	SZMM3Z51V	–	SZMM5Z51V	–	–	–	–	SZMMSZ5262B	SZ1SMA5942B	SZ1SMB5942B	1SMB5942B
56	–	–	SZBZX84C56L	–	–	–	SZMM3Z56V	–	SZMM5Z56V	–	–	–	–	–	SZ1SMA5943B	SZ1SMB5943B	1SMB5943B
62	–	–	SZBZX84C62L	–	–	–	–	–	SZMM5Z62V	–	–	–	–	SZMMSZ5265B	–	SZ1SMB5944B	1SMB5944B
68	–	–	SZBZX84C68L	–	–	–	SZMM3Z68V	–	SZMM5Z68V	–	–	–	–	SZMMSZ5266B	SZ1SMA5945B	SZ1SMB5945B	1SMB5945B
75	–	–	SZBZX84C75L	–	–	–	SZMM3Z75V	–	SZMM5Z75V	–	–	–	–	SZMMSZ5267B	–	SZ1SMB5946B	1SMB5946B
82	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SZ1SMB5947B	1SMB5947B
100	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SZ1SMB5949B	1SMB5949B

*** Pending 4Q19.**

SCHOTTKY DIODES

Device	V_R (V)	I_F (mA)	C_T Max (pF)	V_F Max (V)	I_R Max (μA)	Type	Package(s)
SMMSD701	70	200	1	0.5	0.2	Single	SOD-123
SMMSD301	30	200	1.5	0.45	0.2	Single	
NSVBAT54H	30	200	10	0.32	2	Single	SOD-323
NSVR0320MW2	23	1000	35	0.27	50	Single	
NSVR1020MW2	20	1000	29	0.44	40	Single	
NSVRB751V40	30	30	2	0.37	0.5	Single	
NSVR0240H	40	250	4	0.45	0.55	Single	
NSVR0340H	40	250	6	0.35	1	Single	
MMDL770	70	70	1	0.5	0.2	Single	
NSR0340V2*	40	250	6	0.35	1	Single	SOD-523
NSVR0240V2	40	250	4	0.7	0.55	Single	
NSVR0520V2	20	500	35	0.48	30	Single	
NSVRB521S30	30	200	–	0.5	30	Single	
NSVRB751S40	30	30	2.5	0.37	0.5	Single	
RB520S30*	30	200	–	0.6	1	Single	
SBAT54XV2	30	200	10	0.32	2	Single	
NSVR0230M2	30	200	–	0.325	10	Single	SOD-723
NSVR0230P2	30	200	–	0.325	10	Single	SOD-923
NSVR0620P2	20	500	12	0.31	10	Single	
NSR0140P2*	30	70	2	0.28	0.3	Single	
NSR0130P2*	30	100	-	0.38	0.35	Single	
NSVR0530P2	30	500	10	37	10	Single	
NSVR0240P2	40	200	7	0.365	0.55	Single	
NSVR0340P2	40	200	4	0.32	5	Single	
NSVR0170P2	70	70	2	0.39	9	Single	
NSVBAT54M3	30	200	10	0.32	2	Single	SOT-723
NSVBAS70L	70	70	2	0.41	0.1	Single	SOT-23
SMMBD701L	70	–	1	0.5	0.2	Single	
SBAS70-04L	70	–	2	0.41	0.1	Dual Series	
SBAS40L	40	120	5	0.38	1	Single	
SBAS40-04L	40	120	5	0.38	1	Dual Series	
SBAS40-06L	40	120	5	0.38	1	Dual Common Anode	
SBAT54CL	30	200	10	0.32	2	Dual Common Cathode	
NSVBAT54L	30	200	10	0.32	2	Single	
SBAT54AL	30	200	10	0.32	2	Dual Common Anode	
SBAT54SL	30	200	10	0.32	2	Dual Series	
SMMBD301L	30	–	1.5	0.45	0.2	Single	
NSVMMBD353L	7	–	1	0.6	10	Dual Series	
NSVMMBD354L	7	–	1	0.6	10	Dual Common Cathode	
SMMBD770	70	200	1	0.5	0.2	Single	SC-70 (SOT-323)
SBAT54AW	30	200	10	0.32	2	Dual Common Anode	
SBAT54CW	30	200	10	0.32	2	Dual Common Cathode	
NSVBAT54W	30	200	10	0.32	2	Single	
NSVBAT54SW	30	200	10	0.32	2	Dual Series	
SMMBD330	30	200	1.5	0.45	0.2	Single	
NSVMMBD352W	7	–	1	0.6	10	Dual Series	
NSVMBD770DW1	70	200	1	0.5	0.2	Dual Isolated	SC-88-6 (SC-70-6, SOT-363-6)
SBAT54CT	30	600	10	0.32	2	Dual Common Cathode	SC-75

***NOTE: Contact ON Semiconductor for AEC and PPAP status.**

RF SCHOTTKY BARRIER DIODES

Device	Maximum Rating V_R (V)	V_F Max (mV) @ I_F = 1 mA	C Typ (pF) @ V_R = 0.2 V, f = 1 MHz	Package(s)
NSVR201MX	2	320	0.15	X2DFN-2
NSVR351SDSA3	5	230	0.69	SC-59

SWITCHING DIODES

Device	V_R Min (V)	I_R Max (μA)	V_F Max (V)	C_T Max (pF)	t_{rr} Max (ns)	Type	Package(s)
SM1MA151WK	40	0.1	1.2	2	2	Dual Common Cathode	SC-59
SBAS21L	250	0.1	1	5	50	Single	SOT-23
NSVBAS21SL	250	1	1	5	50	Dual Series	
SBAS20L	200	0.1	1	5	50	Single	
NSVBAS19L	120	0.1	1	5	50	Single	
SMMBD7000L	100	1	1.1	1.5	4	Dual Series	
SBAW56L	100	5	1	4	4	Single	
SMMBD914L	100	5	1	4	4	Dual Common Cathode	
SBAS116L	75	0.005	1.1	2	3000	Single	
SBAS16L	75	1	1	2	6	Single	
SBAV199L	70	0.005	1	2	3000	Dual Series	
SBAV70L	70	2.5	1	1.5	6	Dual Common Anode	
SBAV99L	70	2.4	1	1.5	6	Dual Series	
SBAW56L	70	2.4	1	2	6	Dual Common Anode	
SMMBD2837L	35	0.1	1	4	4	Dual Common Cathode	
NSVBAS20L	200	0.1	1.25	5	50	Single	
NSVBAS116L	75	0.2	1	2	6	Dual Common Cathode	
SM1MA142WA	80	0.1	1.2	2	10	Dual Common Cathode	SC-70
SM1MA142WK	80	0.1	1.2	2	10	Dual Common Anode	
SBAS16W	75	1	1	2	6	Single	
SBAV70W	70	5	1	1.5	6	Dual Common Cathode	
SBAV99RW	70	2.5	1	1.5	6	Dual Series	
SBAW56W	70	2.5	1	2	6	Dual Common Anode	
SBAV99W	70	2.4	1	1.5	6	Dual Series	
NSVBAS21TMR6	250	0.1	1.25	5	50	Tri Isolated	SC-74
SHN2D02FUTW1	80	0.1	1.2	2	3	Tri Isolated	SC-88-6
NSVBAS16W1	100	0.1	1.2	2	3		
SBAS21DW5	250	0.1	1	5	50	Dual Isolated	SC-88A 5
SBAS16DXV6	75	1	1	2	6	Dual Isolated	SOT-563
NSVBAS21M3	250	0.1	1	5	50	Single	SOT-723
NSVBAV70T	70	5	1	1.5	6	Dual Common Cathode	SC-75
SBAW56T	70	2.5	1	2	6	Dual Common Anode	
SMMSD103	250	1	1	5	50	Single	SOD-123
SMMSD4148	100	5	1	4	4	Single	
SMMSD914	100	5	1	4	4	Single	
NSVD350HT1G	350	1500	5	0.6	0.15	Single	SOD-323
NSVBAS21H	250	1	1	5	50	Single	
SBAS20H	200	0.1	1	5	50	Single	
SMMDL914	100	5	1	4	4	Single	
SBAS16H	75	1	1	2	6	Single	
SMMDL6050	70	0.1	0.7	2.5	4	Single	
NSV1SS400	100	0.1	1.2	3	4	Single	SOD-523
SBAS16XV2	75	1	1	2	6	Single	

PIN DIODES

Device	Maximum Rating		C Typ (pF) @ V_R = 50 V, f = 1 MHz	r_S Typ (Ω) @ I_F = 10 mA, f = 100 MHz	Package(s)
	V_R (V)	I_F (mA)			
NSVP249SDSF3	50	50	0.23	4.5	SC-70
NSVP264SDSF3	50	50	0.23	2.5	SC-70

ESD PROTECTION DEVICES

	Device	V_{BR} Min (V)	V_{RWM} Max (V)	I_R Max (μA)	I_{pp} Max* (A)	V_C Max (V)	C Max (pF)	No of Channels	Topology	ESD IEC61000 4-2 (Contact/Air)	Applications	Package(s)
IVN	SZNUP1105	25.7	24	0.1	8	44	30	1	Bidirectional	±30 kV/±30 kV	LIN and LS CAN	SOT-23
	SZNUP2105	26.2	24	0.1	8	44	30	2	Bidirectional	±30 kV/±30 kV	HS CAN	
	SESDONCAN1	26.2	24	0.1	3	50	10	2	Bidirectional	±23 kV/±23 kV	HS CAN, CAN-FD	
	SZNUP3105	35.6	32	0.1	10	44	30	2	Bidirectional	±30 kV/±30 kV	24 V System CAN	
	SZNUP2115	26.2	24	0.1	3	50	10	2	Bidirectional	±23 kV/±23 kV	FlexRay	
	SZNUP2125	26.2	24	0.1	3	50	15	2	Bidirectional	±30 kV/±30 kV	HS CAN, CAN-FD	SC-70 (SOT-323)
	SZNUP2128	27.5	26.5	0.1	3	70	15	2	Bidirectional	±30 kV/±30 kV	HS-CAN, CAN-FD, +175°C Tj	
	SZNUP3125	35.6	32	0.1	2	60	10	2	Bidirectional	±21 kV/±21 kV	24 V System CAN	
	SZESD7002	16.5	16	1	–	–	0.5	2	Unidirectional	±8 kV/±15 kV	Ethernet Short-to-Battery Compliant	
	SZESD7205	5.2	5	1	–	–	0.55	2	Unidirectional	±25 kV/±25 kV	Ethernet	SOT-723
	SZESD1L001	16.5	16	1	–	–	0.50	4	Unidirectional	±8 kV/±15 kV	Ethernet Short-to-Battery Compliant	SC-88 (SOT-363)
	SZNUP1128	27.5	26.5	0.1	3	70	15	1	Bidirectional	±30 kV/±30 kV	LIN/SW CAN	SOD-323
	SZNUPH1128**	27.5	26.5	0.1	3	70	15	1	Bidirectional	±30 kV/±30 kV	LIN/SW CAN, +175°C Tj	
High Speed Data Line Protection	SNUP2114	5.5	5	1	12	12	1	2	Unidirectional	±8 kV/±15 kV	Gigabit Ethernet, HDMI, USB2.0	TSOP-6
	SZNUP4114	5.5	5	1	12	12.1	0.60	4	Unidirectional	±8 kV/±15 kV	LVDS, USB2.0, Gigabit Ethernet	
	SZNUP1301	70	–	2.5	–	–	0.90	1	Bidirectional	±8 kV/±15 kV	GHz speed I/Os	SOT-23
	SZESD7272	27	24	1	1	30	2	2	Unidirectional	±8 kV/±15 kV	MHz Speed I/Os Varistor Replacement, +175°C Tj	
	SZNUP2301	70	–	2.5	2	–	3	2	Bidirectional	±8 kV/±15 kV	MHz speed I/Os - I2C, USB2.0	SC-88
	SZNUP4301	70	–	2.5	2	–	3	4	Bidirectional	±8 kV/±15 kV	MHz speed I/Os - I2C, USB2.0	SC-74
	SZNUP4304	70	–	2.5	2	–	1.50	4	Bidirectional	±8 kV/±15 kV	MHz speed I/Os - I2C, USB2.0	TSOP-6
	SZNUP4016	5.5	5	1	–	–	0.80	4	Unidirectional	±15 kV/±15 kV	USB2.0, Gigabit Ethernet	SOT-953
	SZSD12T1G	13.3	12	1	15	25	150	1	Unidirectional	±8 kV/±15 kV	Surge, Transients	SOD-323
	SZESD5Z5.0	6.2	5	0.05	9.4	18.6	80	1	Unidirectional	±30 kV/±30 kV	MHz speed I/Os	SOD-523
	SZESD5Z7.0	7.5	7	0.01	8.8	22.7	65	1	Unidirectional	±30 kV/±30 kV	MHz speed I/Os	
	SZESD7002	16.5	5	1	–	–	0.50	2	Unidirectional	±8 kV/±15 kV	HDMI, USB3.0, LVDS	SC-70
	SZESD7004	5.5	5	1	1	10	0.50	4	Unidirectional	±15 kV/±15 kV	HDMI, USB3.0, LVDS	UDFN-10
	NIV1161	16.5	16	1	–	–	0.50	2	Unidirectional	±8 kV/±15 kV	USB 2.0/3.0, LVDS, HDMI Short to Battery Blocking	WDFN-6
	NIV2161	16.5	16	1	–	–	0.50	2	Unidirectional	±8 kV/±15 kV	USB 2.0/3.0, LVDS, HDMI Short to GND/Battery Blocking	WDFN-10
	SZESD7C5.0	11	5	0.5	–	–	6.2	2	Unidirectional	±8 kV/±15 kV	MHz speed I/Os	SOT-723
	SZESD7205	5.2	5	1	–	–	0.55	2	Unidirectional	±25 kV/±25 kV	USB 2.0, HDMI, APIX, Ethernet	
	SZESD7371H	7	5.3	0.05	3	20	0.55	1	Unidirectional	±20 kV/± 20kV	GHz speed I/Os, Antennas	SOD-323
	SZESD7351H	5	3.3	0.05	3	10	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	
	SZESD8351H	5.5	3.3	1	3	6	0.55	1	Unidirectional	±15 kV/±15 kV	GHz speed I/Os, Antennas	
	SZESD7361H	16.5	16	1	–	–	0.55	1	Unidirectional	±8 kV/±15 kV	GHz speed I/Os, Antennas	
	SZESD7351XV2	5	3.3	0.05	3	10	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	SOD-523
	SZESD8351XV2	5.5	3.3	1	3	6	0.55	1	Unidirectional	±15 kV/± 15kV	GHz speed I/Os, Antennas	
	SZESD7361XV2	16.5	16	1	–	–	0.55	1	Unidirectional	±8 kV/± 15kV	GHz speed I/Os, Antennas	
	SZESD7424MU	26	24	1	–	–	1	1	Bidirectional	±30 kV/± 30kV	GHz speed I/Os, Antennas	UDFN-2
	SZESD7410N2	10	8	1	–	–	1	1	Bidirectional	±30 kV/± 30kV	GHz speed I/Os, Antennas	SOD-882
	SZESD7551N2	6	3.3	0.05	3	12	0.40	1	Bidirectional	±20 kV/± 20kV	GHz speed I/Os, Antennas	
	SZESD7421N2	16.5	16	0.5	1	–	0.60	1	Bidirectional	±12 kV/±15 kV	GHz speed I/Os, Antennas	
	SZESD7571N2	7	5.3	0.05	3	20	0.30	1	Bidirectional	±20 kV/± 20kV	GHz speed I/Os, Antennas	
	SZESD8551N2	5.5	3.3	1	3	9	0.30	1	Bidirectional	±15 kV/±15 kV	GHz speed I/Os, Antennas	
	SZESD7462N2	16.5	16	0.1	1	30	0.55	1	Bidirectional	±18 kV/±18 kV	GHz speed I/Os, Antennas	
	SZESD7351P2	5	3.3	0.05	3	10	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	SOD-923
	SZESD7361P2	16.5	16	1	–	–	0.55	1	Unidirectional	±8 kV/±15 kV	GHz speed I/Os, Antennas	
	SZESD7371P2	7	5.3	0.05	3	20	0.55	1	Unidirectional	±20 kV/±20 kV	GHz speed I/Os, Antennas	
	SZESD8351P2	5.5	3.3	1	3	6	0.55	1	Unidirectional	±15 kV/±15 kV	GHz speed I/Os, Antennas	
	SZESD9L3.3S	4.8	3.3	1	1	9	0.90	1	Bidirectional	±10 kV/±15 kV	GHz speed I/Os	
	SZESD9L5.0S	5.4	5	1	1	9.8	0.90	1	Bidirectional	±10 kV/±15 kV	RF Antenna, GHz speed I/Os	
	SZESD9B5.0S	5.8	5	1	1	12.5	15	1	Bidirectional	±18 kV/±18 kV	MHz speed I/Os	
	SZESD9X5.0S	6.2	5	1	8.7	12.3	65	1	Unidirectional	±30 kV/±30 kV	MHz speed I/Os	

*** I_{PP} Max rating based on 10 x 1000 μs surge waveform. ** Pending 4Q19.**

ESD & EMI FILTERS

	Device	Network	Number of Channels	L or R Typ (H,Ω)	C Typ (pF)	$V_{(BR)}$ Typ (V)	V_{RWM} Max (V)	ESD IEC61000 4-2 (Contact/Air)	Filter (f3dB) MHz	Differential Mode	Applications	Package(s)
CMF Differential	EMI8131MU	CMF	2	6 Ω	–	6.8	3.3	±15 kV/±15 kV	–	3 dB > 2.5 GHz	uSD, USB3.0	XDFN-6
	EMI8132MU	CMF	4	6 Ω	–	6.8	3.3	±15 kV/±15 kV	–	3 dB > 2.5 GHz	uSD, USB3.0	XDFN-10
	EMI8133MU	CMF	6	6 Ω	–	6.8	3.3	±15 kV/±15 kV	–	3 dB > 2.5 GHz	uSD, USB3.0	XDFN-16
	EMI8141MUT	CMF	2	6 Ω	–	6.8	3.3	±15 kV/±15 kV	–	3 dB > 5 GHz	uSD, USB3.0	XDFN-6
	EMI8142MUT	CMF	4	6 Ω	–	6.8	3.3	±15 kV/±15 kV	–	3 dB > 5 GHz	uSD, USB3.0	XDFN-10
	EMI8143MUT	CMF	6	6 Ω	–	6.8	3.3	±15 kV/±15 kV	–	3 dB > 5 GHz	uSD, USB3.0	XDFN-16
	SZEMI2121	CMF	3	8 Ω	0.8	6.8	5	±12 kV/±12 kV	–	>700 MHz attenuation	USB2.0	WDFN-8
Single Ended	CM1624	C-R-L-C	7	28 Ω, 1 nH	20	6.8	5	±15 kV/±15 kV	300	–	uSD	UDFN-16
	EMI7204MU	C-L-C	4	17 nH	12	6.8	5	±16 kV/±16 kV	280	–	LCD	UDFN-8
	EMI7206MU	C-L-C	6	17 nH	12	6.8	5	±16 kV/±16 kV	280	–	LCD	UDFN-12
	EMI7208MU	C-L-C	8	17 nH	12	6.8	5	±16 kV/±16 kV	280	–	LCD	UDFN-16
	EMI9404MU	C-L-C-L-C	4	35 nH	1.8, 4.7, 6	7.3	5	±14 kV/±16 kV	343	–	800 MHz - 2.7 GHz attenutation	UDFN-8
	EMI9406MU	C-L-C-L-C	6	35 nH	1.8, 4.7, 6	7.3	5	±14 kV/±16 kV	343	–	800 MHz - 2.7 GHz attenutation	UDFN-12
	EMI9408MU	C-L-C-L-C	8	35 nH	1.8, 4.7, 6	7.3	5	±14 kV/±16 kV	343	–	800 MHz - 2.7 GHz attenutation	UDFN-16
	NUF4401MN	C-R-C	4	200 Ω	30	7	5	±15 kV/±15 kV	125	–	Audio, Video, General IO	DFN-8
	NUF4402MN	C-R-C	4	100 Ω	24	7	5	±14 kV/±14 kV	151	–	Audio, Video, General IO	DFN-8
	NUF4403MN	C-R-C	4	100 Ω	34	7	5	±18 kV/±18 kV	105	–	Audio, Video, General IO	DFN-8
	NUF6401MN	C-R-C	6	100 Ω	34	7	5	±15 kV/±15 kV	110	–	Audio, Video, General IO	DFN-12
	NZF220DFT1G	C-R-C	2	100 Ω	22	7	5	±8 kV/±8 kV	220	–	Audio, Clock Lines	SC-88A
	NZF220TT1	C-R-C	1	100 Ω	22	7	5	±8 kV/±8 kV	220	–	Audio, Clock Lines	SC-75-3

NOTE: Ipp Max rating based on 8/20 µs surge waveform.

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