Micro Commercial Components

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SD820 THRU SD8100

8 Amp Schottky Barrier Rectifier 20 to 100 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Switching Noise and Low Forward Voltage Drop
- High Current Capability and High Surge Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction To Ambient

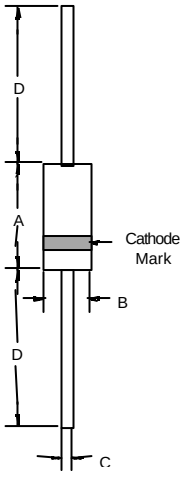
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD820	20V	14V	20V
SD830	30V	21V	30V
SD840	40V	28V	40V
SD850	50V	35V	50V
SD860	60V	42V	60V
SD880	80V	56V	80V
SD8100	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8.0A	T_A = 90°C
Peak Forward Surge Current	I_{FSM}	175A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SD820-SD860 SD880-SD8100	V_F	.62V .85V	I_{FM} = 8.0A; T_A = 25°C(Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5mA 50mA	T_A = 25°C T_A = 100°C
Typical Junction Capacitance	C_J	550pF	Measured at 1.0MHz, V_R=4.0V

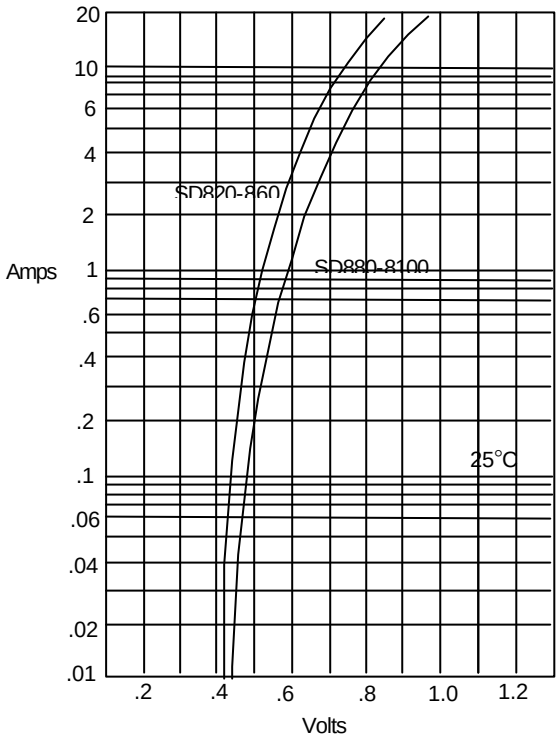
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.
2.Pulse test: Pulse width 300 μsec, Duty cycle 1%

DO-201AD



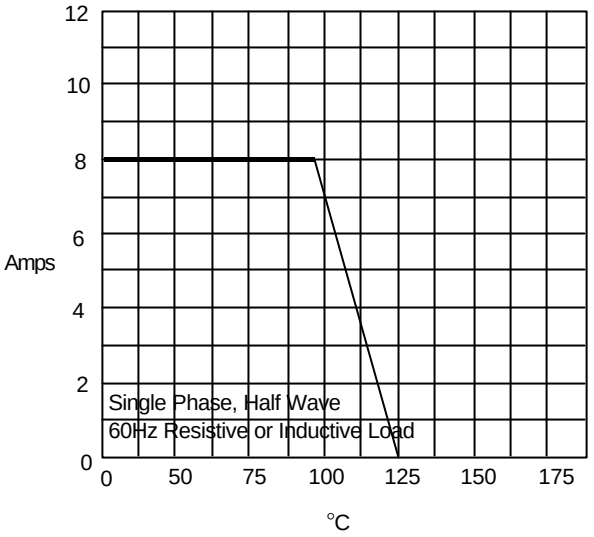
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

Figure 1
Typical Forward Characteristics



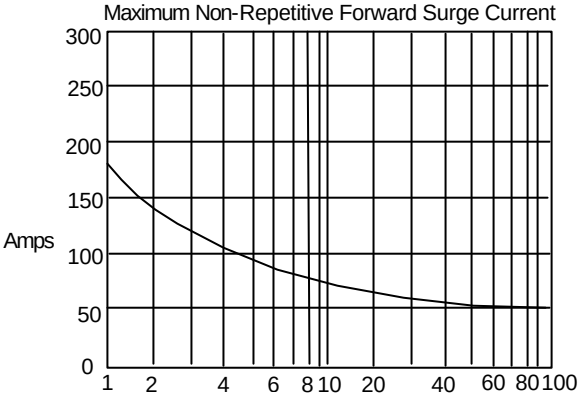
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



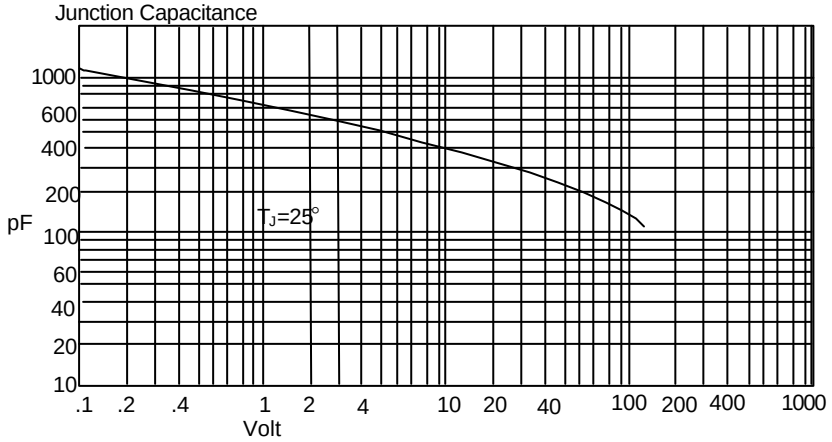
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure3
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Figure 4
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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