Ultra-Fast-Recovery Rectifier Diodes 200V

t_{rr} ①: I_F/I_R (=I_F) 90% Recovery Point (ex. I_F/I_R =100mA/100mA 90% Recovery Point)
t_{rr} ②: I_F/I_R (=2 I_F) 75% Recovery Point (ex. I_F/I_R =100mA/200mA 75% Recovery Point)

V_{RM} (V)	Package	Part Number	$I_{F(AV)}$ (A)	I_{FSM} (A) 50Hz Half-cycle Sinewave Single Shot	Tj (°C)	Tstg (°C)	V_F (V) max	I_F (A)	I_R (μA) $V_R=V_{RM}$ max	I_R (H) (mA) $V_R=V_{RM}$ max	Ta (°C)	t_{rr} ① (ns)	I_F/I_{FP} (mA)	t_{rr} ② (ns)	I_F/I_{FP} (mA)	Rth (j-ℓ) Rth (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
200	Surface Mount	SFPL-52	0.9	25	–40 to +150		0.98	1.0	10	1	150 (Tj)	50	100/100	35	100/200	20	0.072	1	63
		SFPL-62	1.0	25	–40 to +150		0.98	1.0	10	1	150 (Tj)	50	100/100	35	100/200	20	0.072		
		SFPX-62	1.5	30	–40 to +150		0.98	1.5	10	2	150 (Tj)	30	100/100	25	100/200	20	0.072		
		SPX-G32S	3.0	50	–40 to +150		0.98	3.0	50	10	100	30	100/100	25	100/200	5.0	0.41	2	64
		MPL-102S	10.0	65	–40 to +150		0.98	5.0	100	0.2	150	40	100/100	30	100/200	2.5	1.4	15	80
	Surface Mount Center-tap	SPX-62S	6.0	80	–40 to +150		0.98	3.0	50	10	100	30	100/100	25	100/200	5.0	0.41	2	64
		MP2-202S	20.0	110	–40 to +150		0.98	10.0	200	0.4	150	50	100/100	35	100/200	2.5	1.4	15	80
	Axial	AG01Z	0.7	15	–40 to +150		1.8	0.7	100	0.5	100	100	100/100	50	100/200	22	0.13	3	64
		EG01Z	0.7	15	–40 to +150		1.9	0.7	50	0.3	100	100	100/100	50	100/200	20	0.2	4	
		EG 1Z	0.8	15	–40 to +150		1.7	0.8	50	0.3	100	100	100/100	50	100/200	17	0.3	5	65
		AL01Z	1.0	25	–40 to +150		0.98	1.0	100	0.5	100	50	100/100	35	100/200	22	0.13	3	64
		EN01Z	1.0	50	–40 to +150		0.92	1.0	10	2	150 (Tj)	100	100/100	50	100/200	20	0.2	4	65
		RG 10Z	1.2	50	–40 to +150		1.5	1.2	500	2.5	100	100	100/100	50	100/200	15	0.4	6	66
		RG 2Z	1.2	50	–40 to +150		1.5	1.5	500	2.5	100	100	100/100	50	100/200	12	0.6	7	68
		EL02Z	1.5	25	–40 to +150		0.98	1.5	50	0.1	100	40	100/100	30	100/200	20	0.2	4	65
		EL 1Z	1.5	20	–40 to +150		0.98	1.5	100	0.5	100	100	100/100	50	100/200	17	0.3	5	66
		RN 1Z	1.5	60	–40 to +150		0.92	1.5	20	3	150 (Tj)	100	100/100	50	100/200	15	0.4	6	67
		RX 10Z *	2.0	30	–40 to +150		0.98	2.0	50	3	150 (Tj)	30	100/100	25	100/200	15	0.4		80
		RL 10Z	2.0	30	–40 to +150		0.98	2.0	50	0.1	100	50	100/100	35	100/200	15	0.4		67
		RL 2Z	2.0	30	–40 to +150		0.98	2.0	100	0.5	100	50	100/100	35	100/200	12	0.6	7	68
		RN 2Z	2.0	70	–40 to +150		0.92	2.0	50	4	150 (Tj)	100	100/100	50	100/200	12	0.6		69
		RN 3Z	3.0	80	–40 to +150		0.92	3.0	50	6	150 (Tj)	100	100/100	50	100/200	10	1.0	8	70
		RX 3Z	3.0	80	–40 to +150		0.98	3.0	50	10	100	30	100/100	25	100/200	10	1.0		
		RG 4Z	1.0 (3.0)	80	–40 to +150		1.7	3.0	1000	5	100	100	100/100	35	100/200	8	1.2	9	
		RL 3Z	3.5	80	–40 to +150		0.95	3.5	50	0.2	100	50	100/100	35	100/200	10	1.0	8	69
		RL 4Z	3.5	80	–40 to +150		0.95	3.5	150	0.5	100	50	100/100	50	100/200	8	1.2	9	71
		RN 4Z	3.5	120	–40 to +150		0.92	3.5	50	6	150 (Tj)	100	100/100	50	100/200	8	1.2		
	Frame-2Pin	FML-G12S	5.0	65	–40 to +150		0.98	5.0	250	1	100	40	100/100	30	100/200	4.0	2.1	10	72
		FMN-G12S	5.0	100	–40 to +150		0.92	5.0	100	10	100	100	100/100	50	100/200	4.0	2.1		73
		FMP-G12S	5.0	65	–40 to +150		1.15	5.0	50	0.5	100	150	100/100	70	100/200	4.0	2.1		
		FMX-G12S	5.0	65	–40 to +150		0.98	5.0	100	20	100	30	100/100	25	100/200	4.0	2.1		
		FML-G22S	10.0	150	–40 to +150		0.98	10.0	500	2	100	40	500/500	30	500/1000	4.0	2.1		
		FMX-G22S	10.0	150	–40 to +150		0.98	10.0	200	50	100	30	500/500	25	500/1000	4.0	2.1		
	Center-tap	FMG-12S, R	5.0	35	–40 to +150		1.8	2.5	500	1.5	100	100	100/100	50	100/200	4.0	2.1	11	74
		FML-12S	5.0	35	–40 to +150		0.98	2.5	150	0.5	100	40	100/100	30	100/200	4.0	2.1		75
		FMX-12S	5.0	35	–40 to +150		0.98	2.5	50	10	100	30	100/100	25	100/200	4.0	2.1		77
		FMG-22S, R	10.0	65	–40 to +150		1.8	5.0	500	1.5	100	100	100/100	50	100/200	4.0	2.1		75
		FML-22S	10.0	65	–40 to +150		0.98	5.0	250	1	100	40	100/100	30	100/200	4.0	2.1		76
		FMX-22S	10.0	65	–40 to +150		0.98	5.0	100	20	100	30	100/100	25	100/200	4.0	2.1		
		FMX-22SL	15.0	100	–40 to +150		0.98	7.5	150	30	100	30	500/500	25	500/1000	4.0	2.1		77
		FMG-32S, R	20.0	150	–40 to +150		1.8	10.0	1000	5	100	100	100/100	50	100/200	2.0	5.5	12	
		FML-32S	20.0	150	–40 to +150		0.98	10.0	600	2	100	40	100/100	30	100/200	2.0	5.5		78
		FMX-32S	20.0	150	–40 to +150		0.98	10.0	200	50	100	30	500/500	25	500/1000	2.0	5.5		
	Bridge	RBV-402L	4.0	80	–40 to +150		0.98	2.0	50	0.1	100	40	100/100	30	100/200	5.0	4.05	13	79
		RBV-602L	6.0	100	–40 to +150		1.0	3.0	250	1	100	50	100/100	35	100/200	3.0	6.45	14	

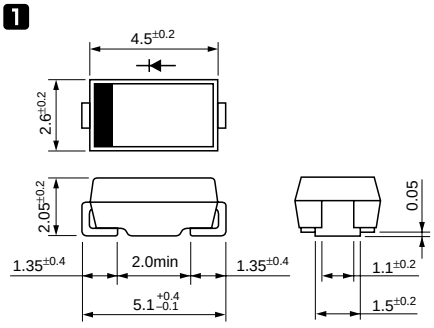
*: Under development

Ultra-Fast-Recovery Rectifier Diodes 200V

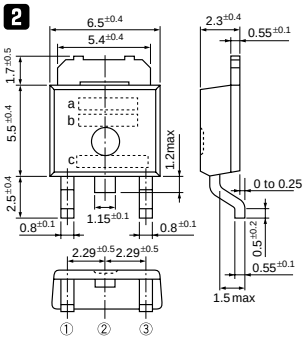
■External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

1



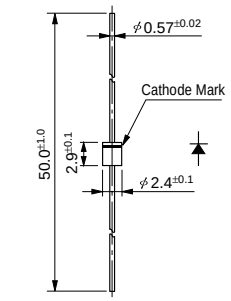
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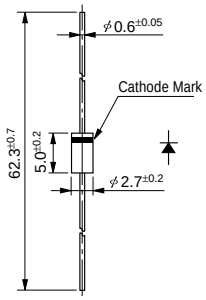
a: Part Number
b: Polarity
c: Lot No.

	①	②(Common to backside of case)	③
1 Chip	N.C	Cathode	Anode
Center-tap	Anode	Cathode (Common)	Anode

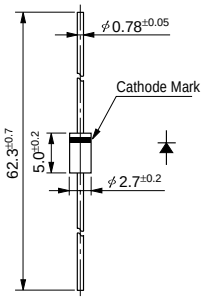
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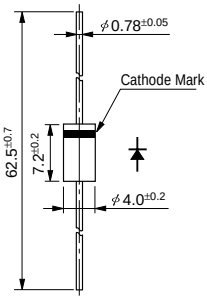
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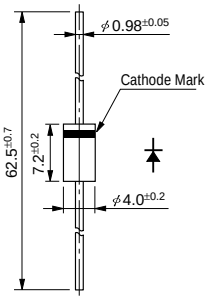
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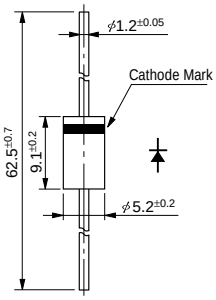
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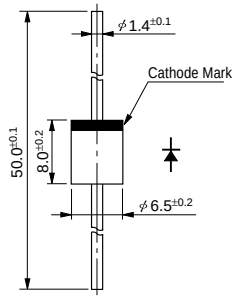
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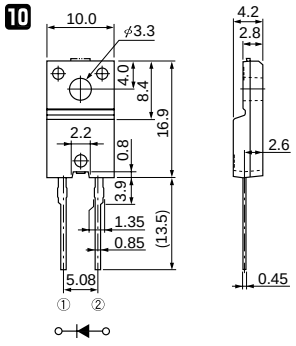
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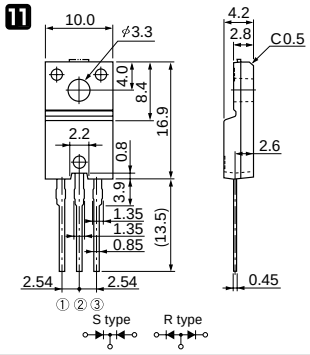
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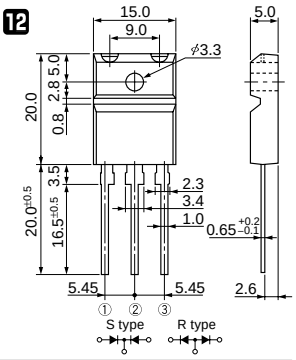
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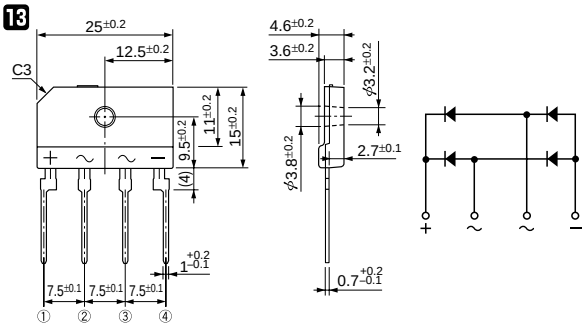
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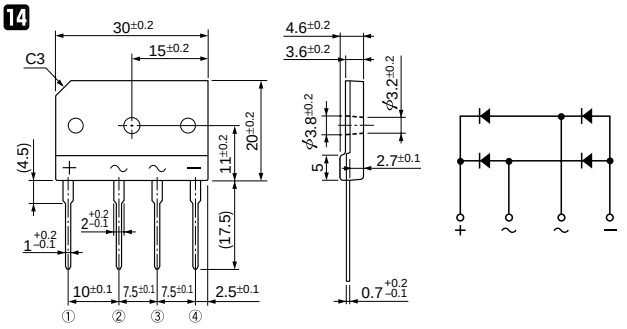
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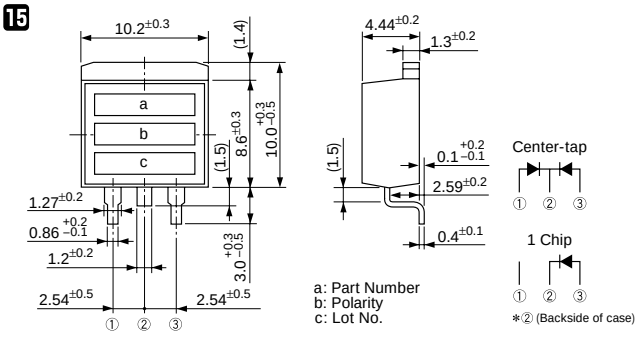
13



14



15



a: Part Number
b: Polarity
c: Lot No.

Center-tap

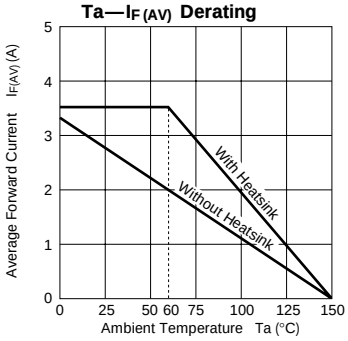
1 Chip

*② (Backside of case)

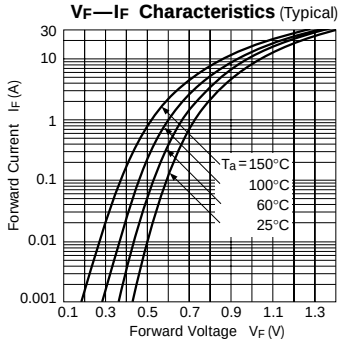
Ultra-Fast-Recovery Rectifier Diodes

RL 4Z

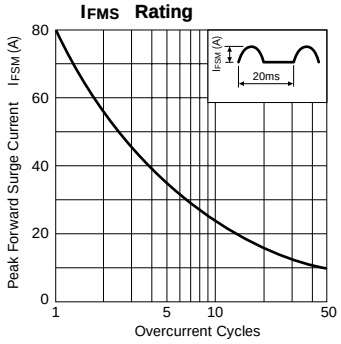
Ta—$I_{F(AV)}$ Derating



V_F—I_F Characteristics (Typical)

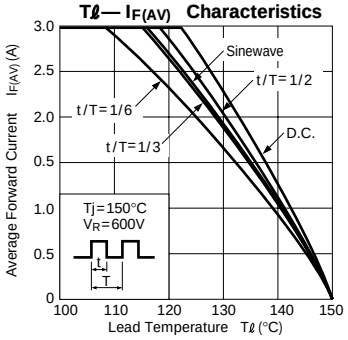


I_{FMS} Rating

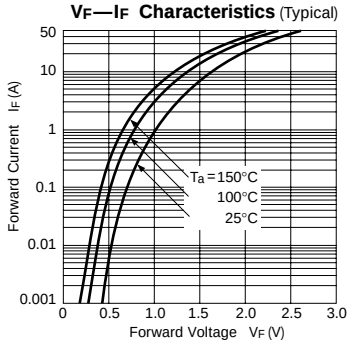


RL 4A

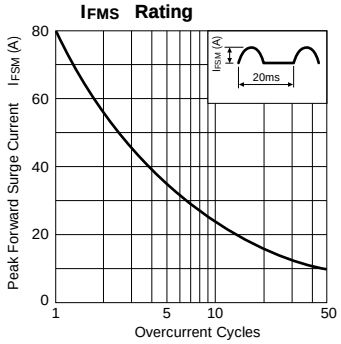
Tℓ— $I_{F(AV)}$ Characteristics



V_F—I_F Characteristics (Typical)

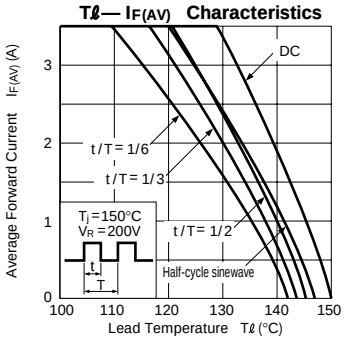


I_{FMS} Rating

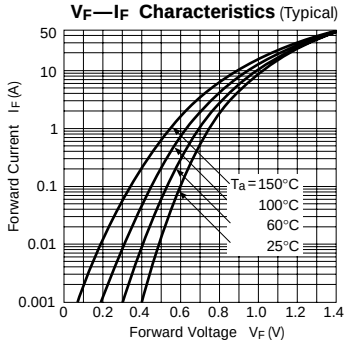


RN 4Z

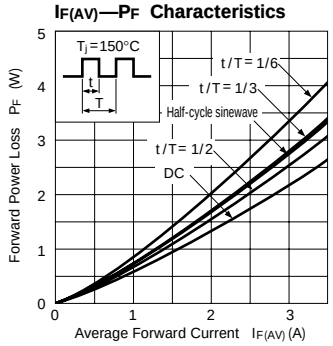
Tℓ— $I_{F(AV)}$ Characteristics



V_F—I_F Characteristics (Typical)

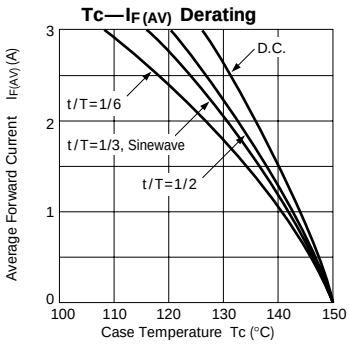


$I_{F(AV)}$—P_F Characteristics

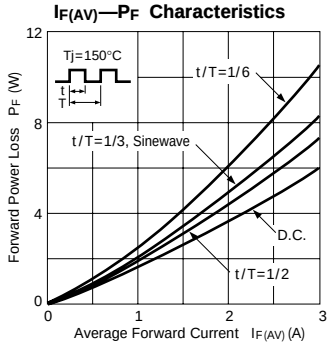


FMC-G28S

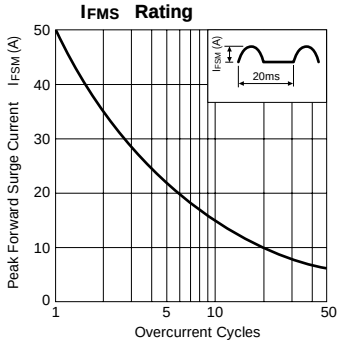
Tc—$I_{F(AV)}$ Derating



$I_{F(AV)}$—P_F Characteristics

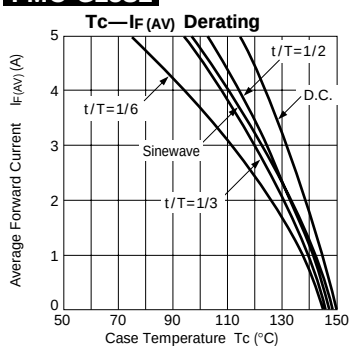


I_{FMS} Rating

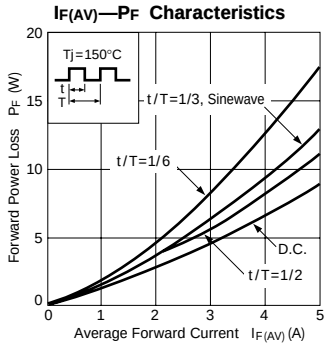


FMC-G28SL

Tc—$I_{F(AV)}$ Derating



$I_{F(AV)}$—P_F Characteristics



I_{FMS} Rating

