

D1F60

600V 1A

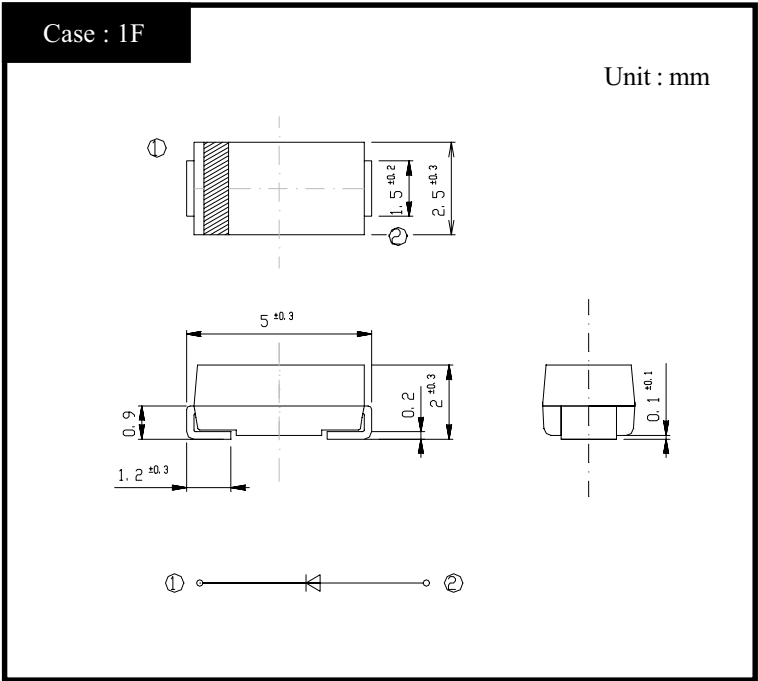
FEATURES

- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

APPLICATION

- Conventional Rectification
- Power source(Power Supply)
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (If not specified TI=25°C)

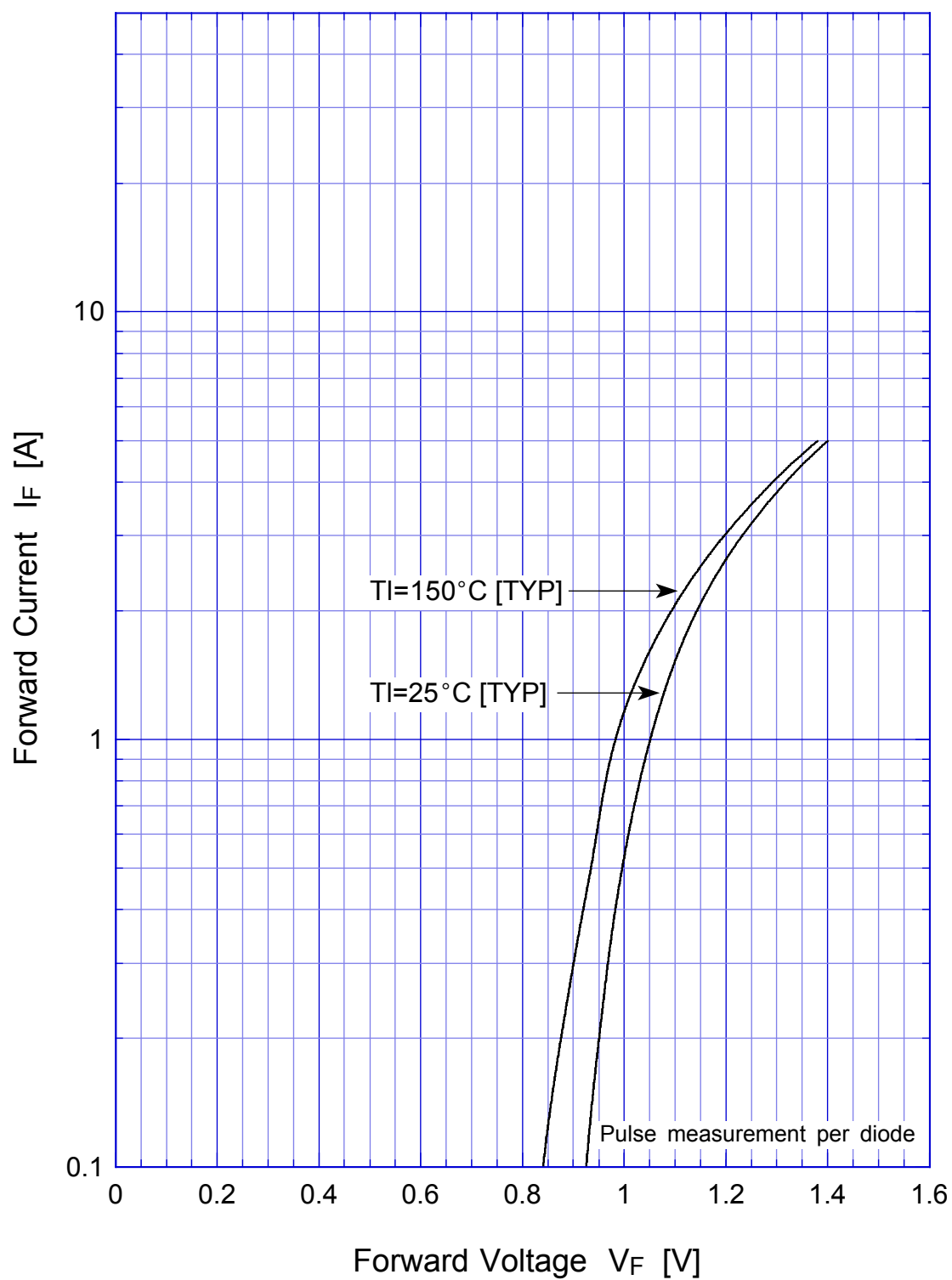
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		600	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, On alumina substrate Ta=25°C	1	A
		50Hz sine wave, R-load, On glass-epoxy substrate Ta=25°C	0.75	
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	25	A

●Electrical Characteristics (If not specified TI=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=1A, Pulse measurement	Max.1.1	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.10	μA
Thermal Resistance	θjl	junction to lead	Max.23	°C/W
	θja	junction to ambient, On alumina substrate	Max.108	
		junction to ambient, On glass-epoxy substrate	Max.157	

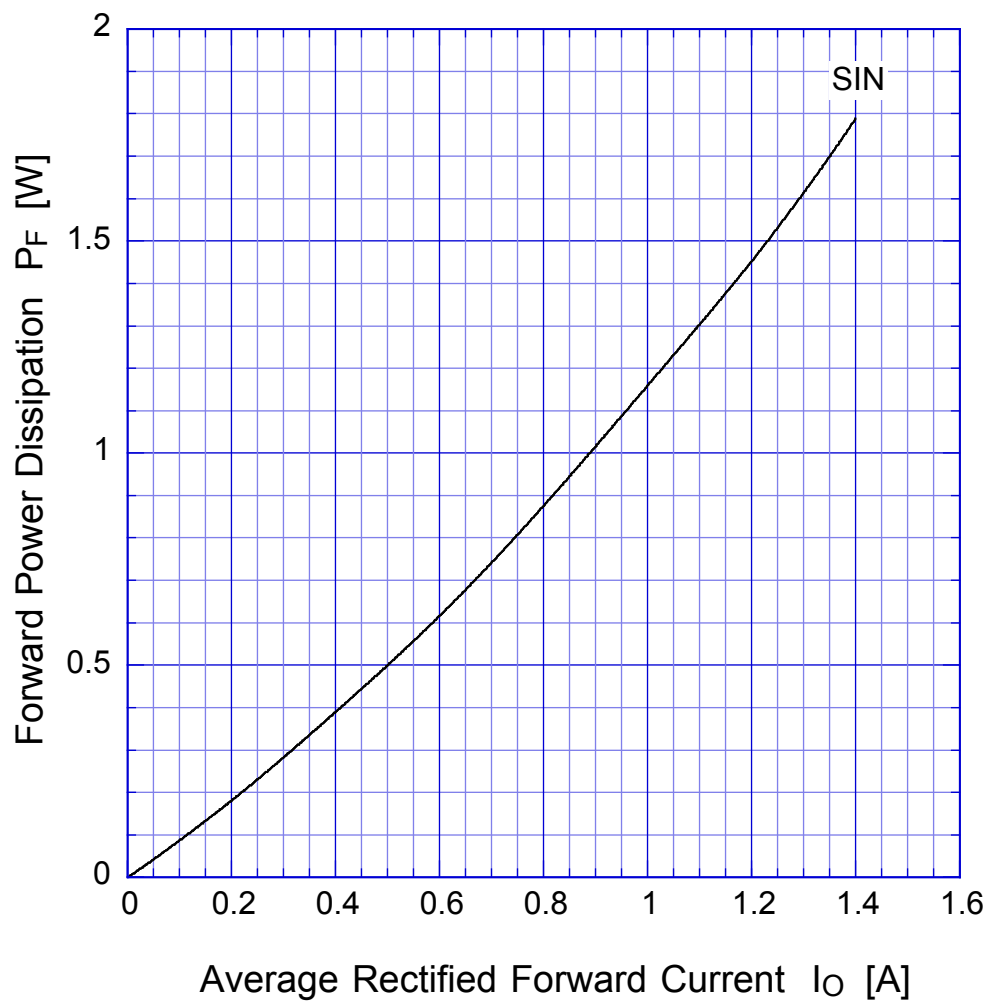
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Forward Voltage



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Forward Power Dissipation

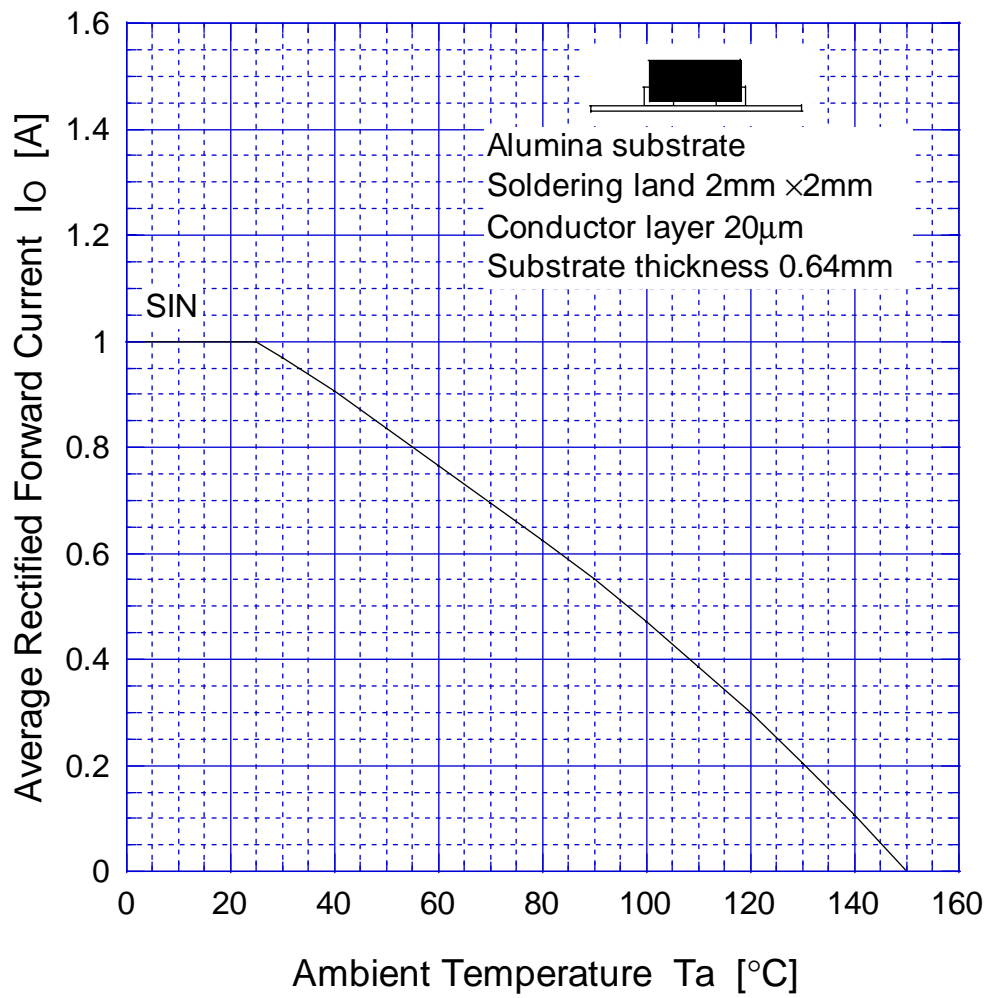


$T_j = 150^\circ\text{C}$

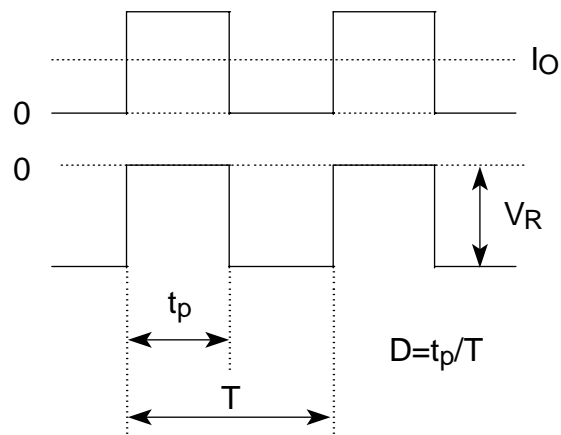
Sine wave

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Derating Curve

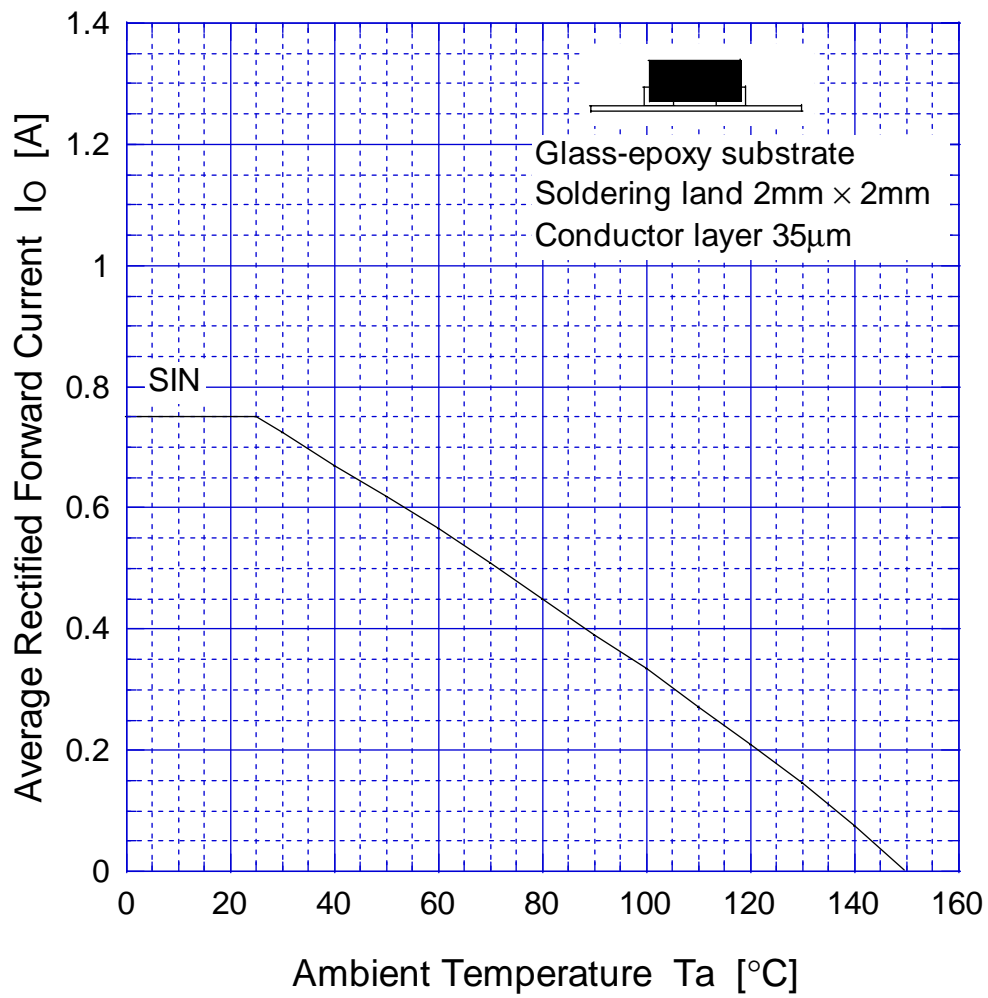


$$V_R = V_{RM}$$

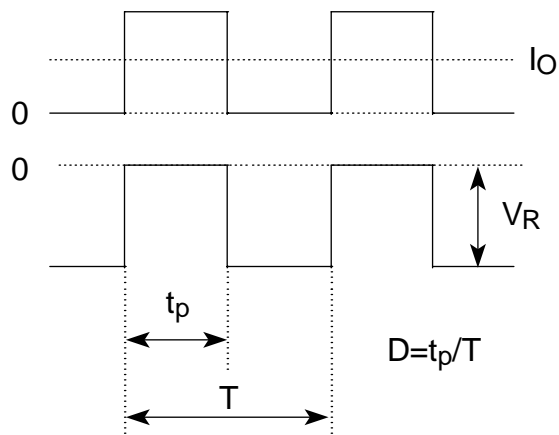


D1Fx

Derating Curve



$V_R = V_{RM}$
Sine wave
R-load
Free in air



D1Fx

Peak Surge Forward Capability

