

D1F60

600V 1A

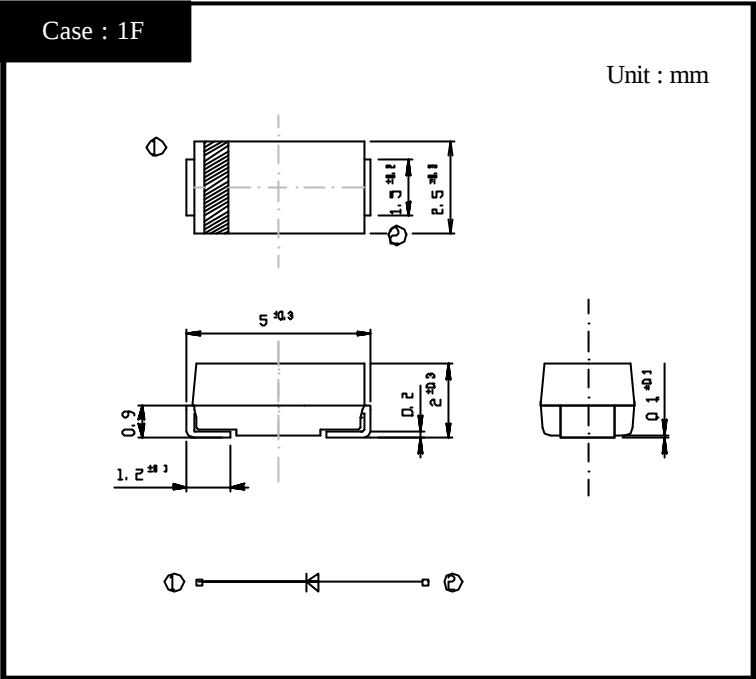
FEATURES

- 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 Tl=25)

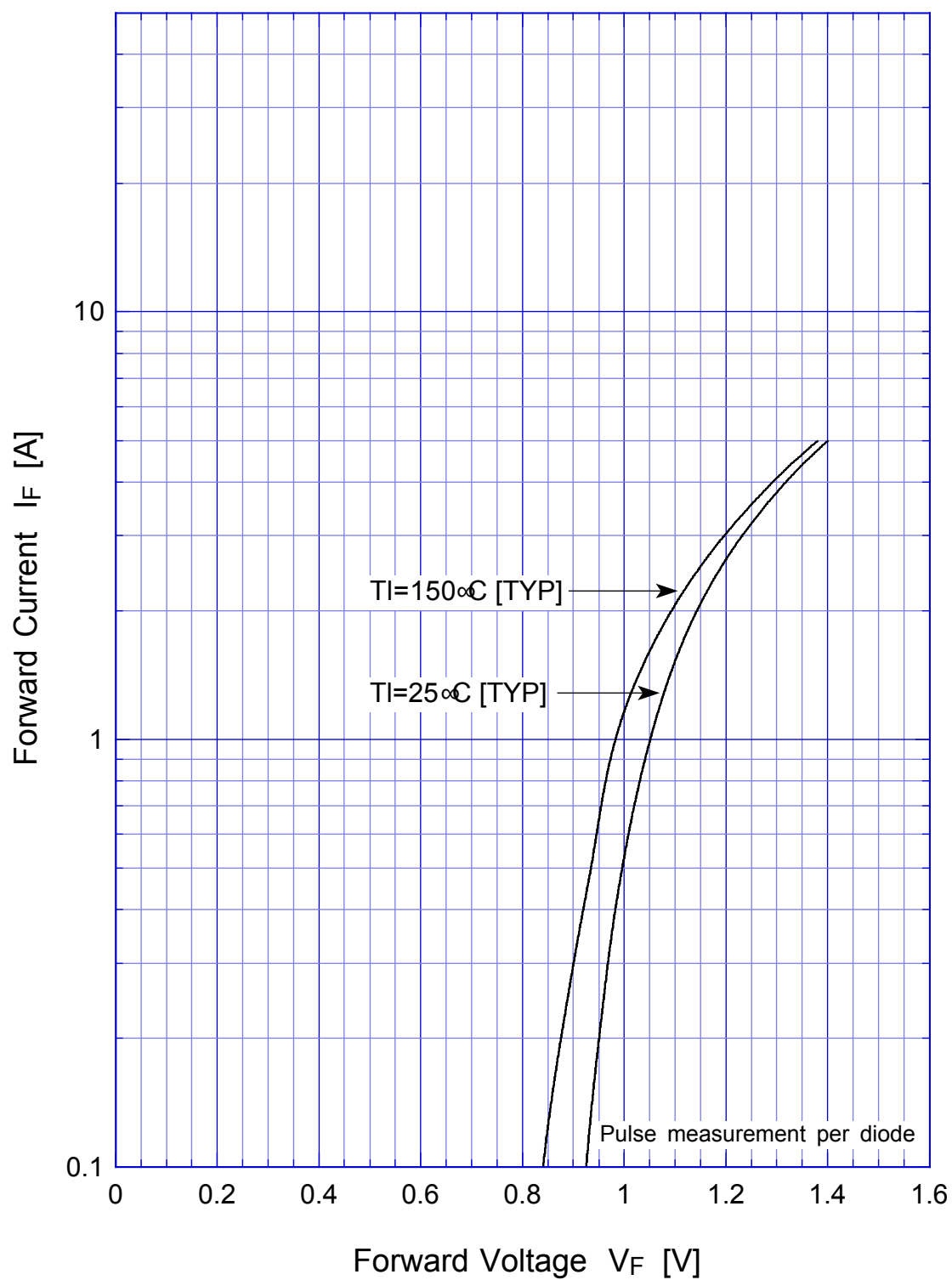
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _o	50Hz sine wave, R-load, On alumina substrate Ta=25	1	A
		50Hz sine wave, R-load, On glass-epoxy substrate Ta=25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

- Electrical Characteristics (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =1A, Pulse measurement	Max.1.1	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.10	μ A
Thermal Resistance	θ j l	junction to lead	Max.23	/W
	θ j a	junction to ambient, On alumina substrate	Max.108	
		junction to ambient, On glass-epoxy substrate	Max.157	

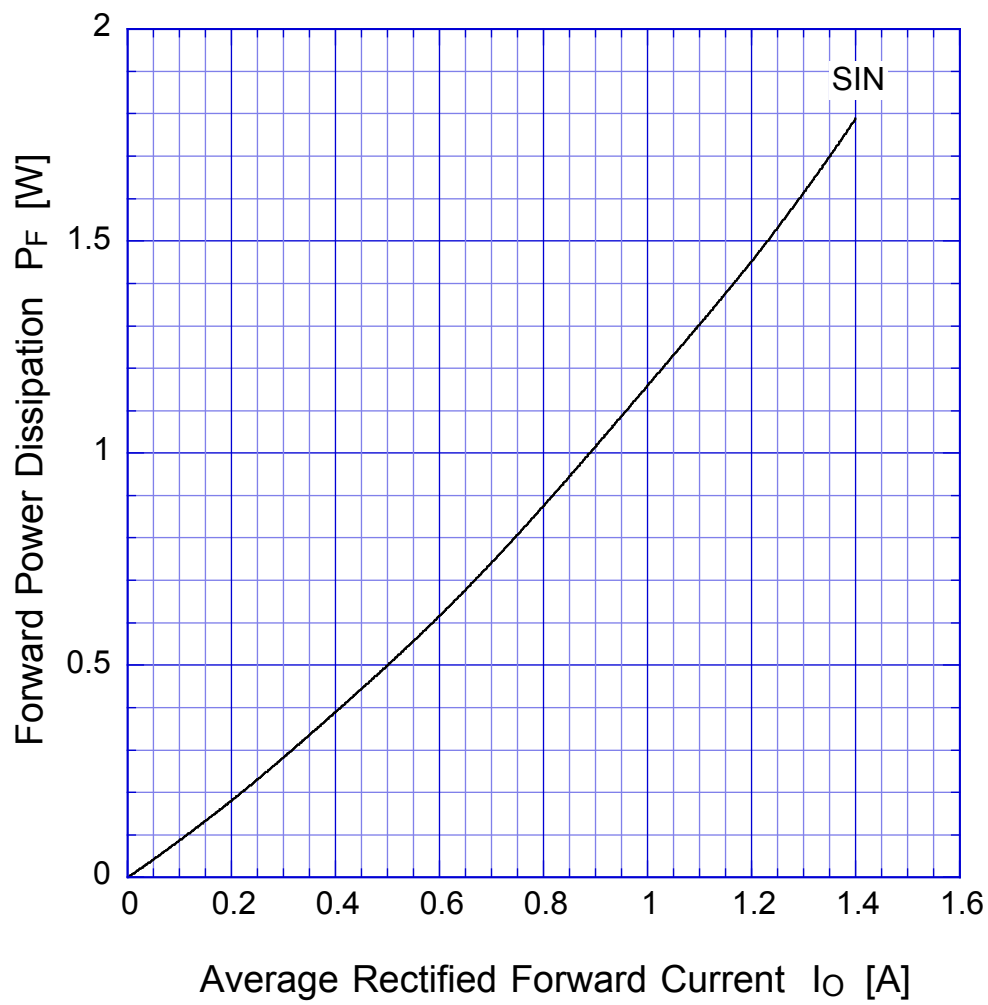
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Forward Voltage



D1Fx

Forward Power Dissipation

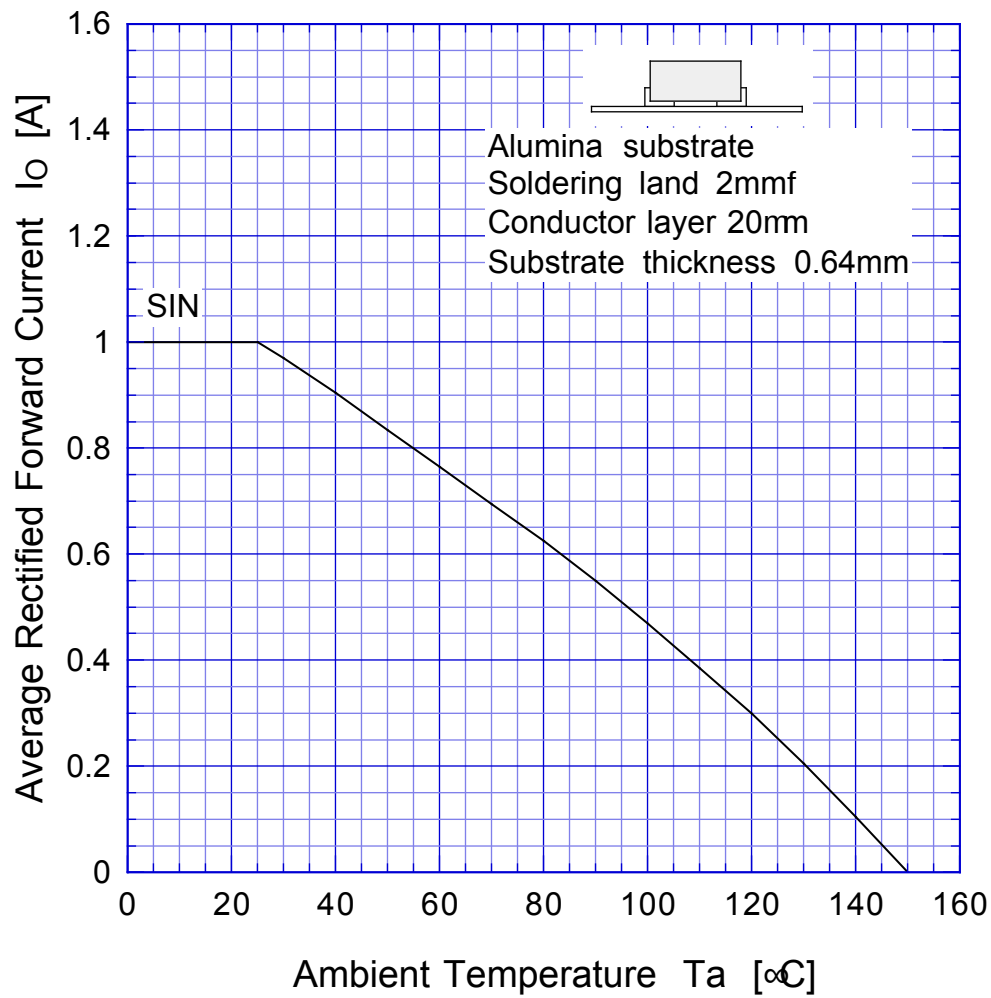


$T_j = 150^{\circ}\text{C}$

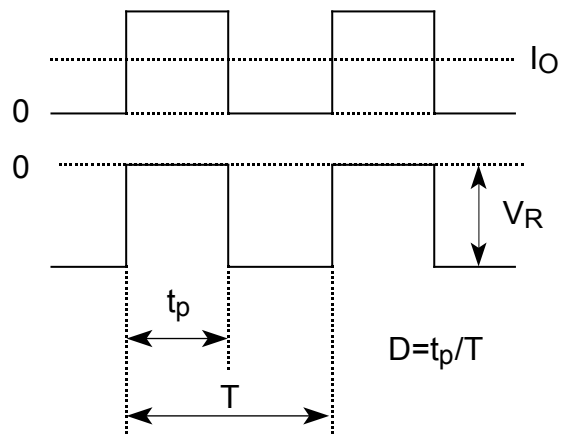
Sine wave

D1Fx

Derating Curve

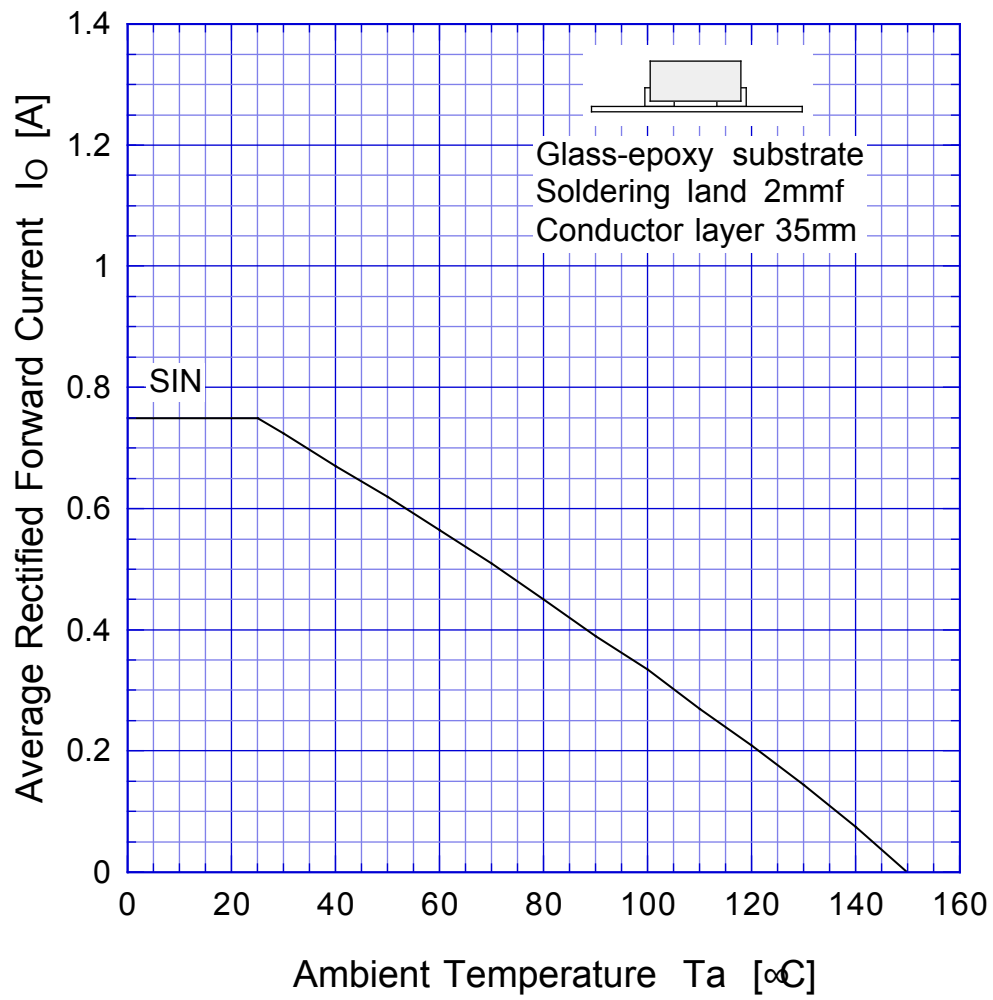


$$V_R = V_{RM}$$

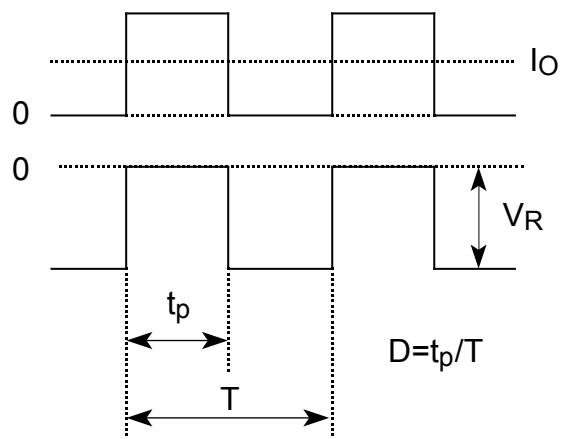


D1Fx

Derating Curve



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



D1Fx

Peak Surge Forward Capability

