

SHINDENGEN

General Purpose Rectifiers

Single

M1F80

800V 1A

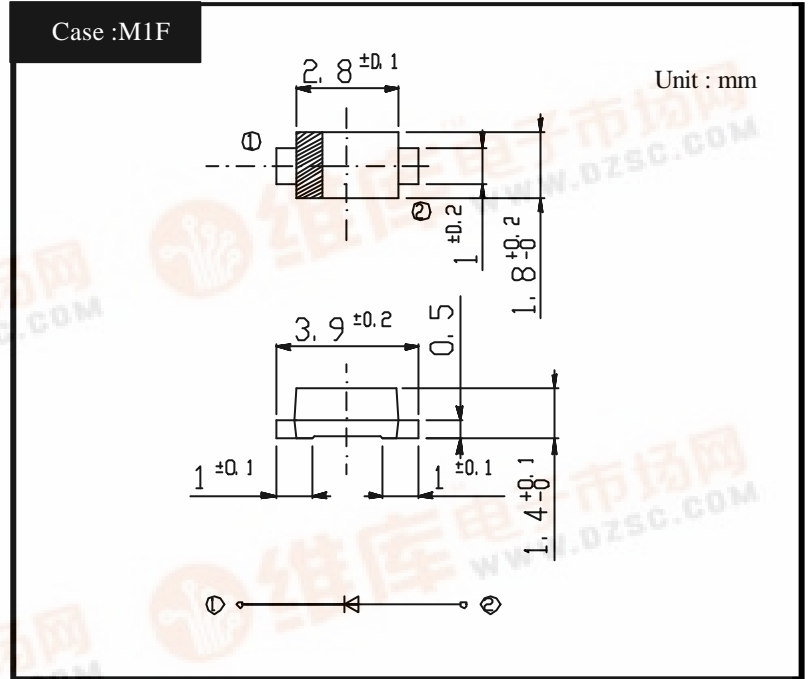
FEATURES

- 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)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		800	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Ta=25 On alumina substrate	1.0	A
		50Hz sine wave, R-load, Ta=25 On glass-epoxy substrate	0.64	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25	25	A

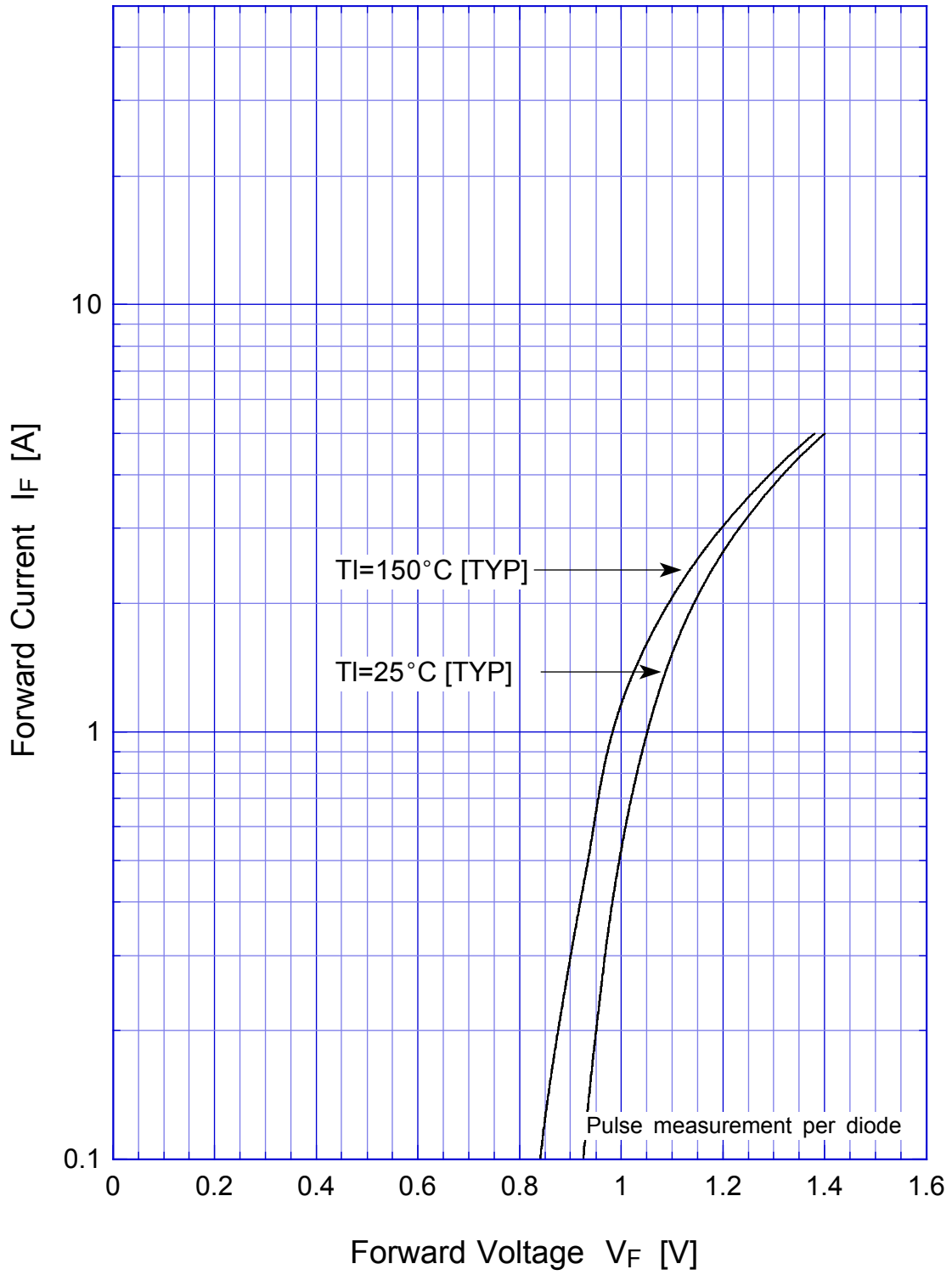
Electrical Characteristics (If not specified TI=25)

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	μA
Thermal Resistance	j _l	junction to lead	Max.20	/W
	j _a	junction to ambient, On alumina substrate	Max.108	
		junction to ambient, On glass-epoxy substrate	Max.186	



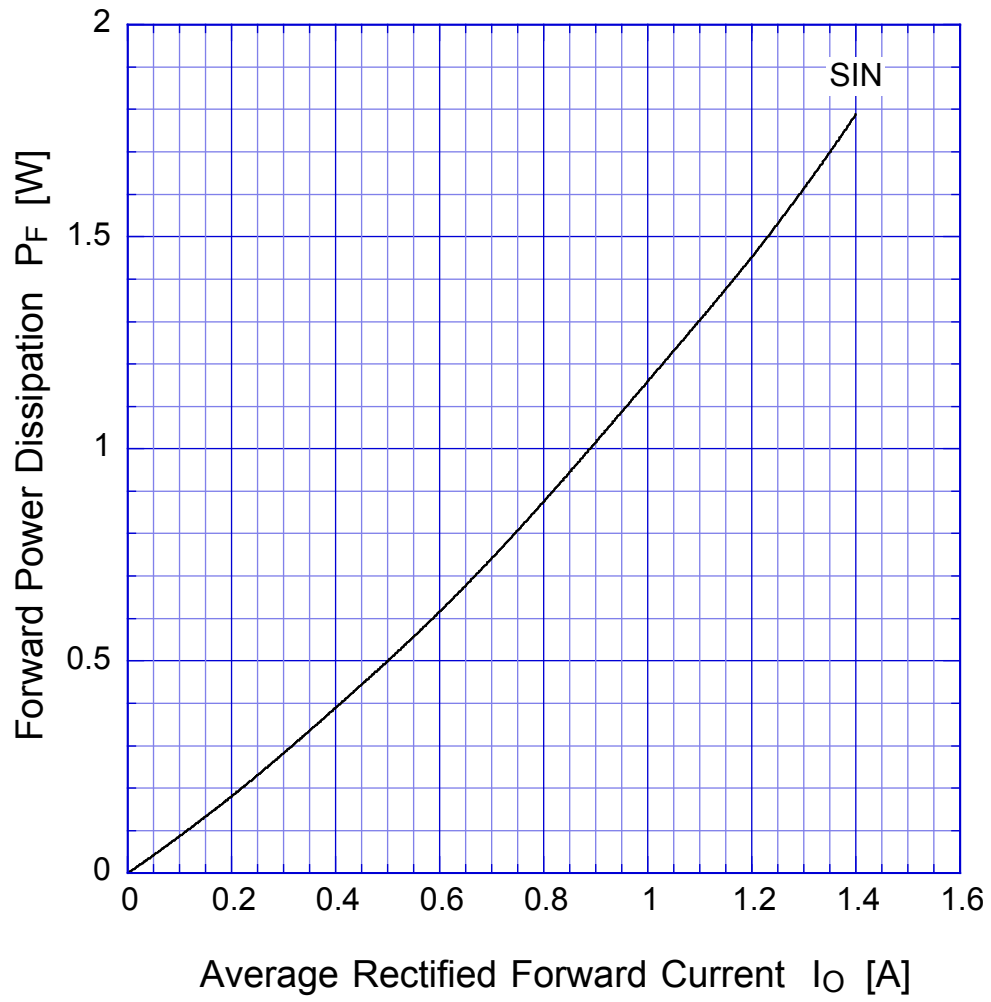
M1Fx

Forward Voltage



M1Fx

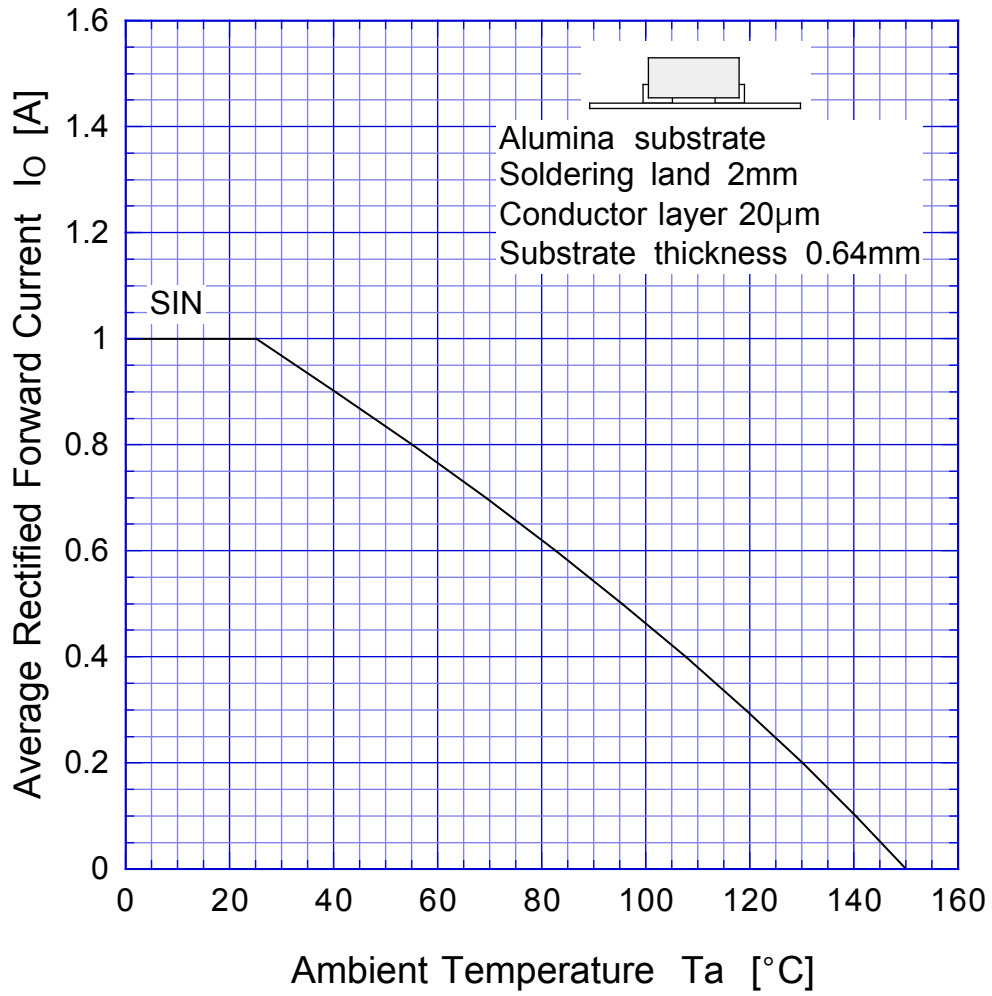
Forward Power Dissipation



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

M1Fx

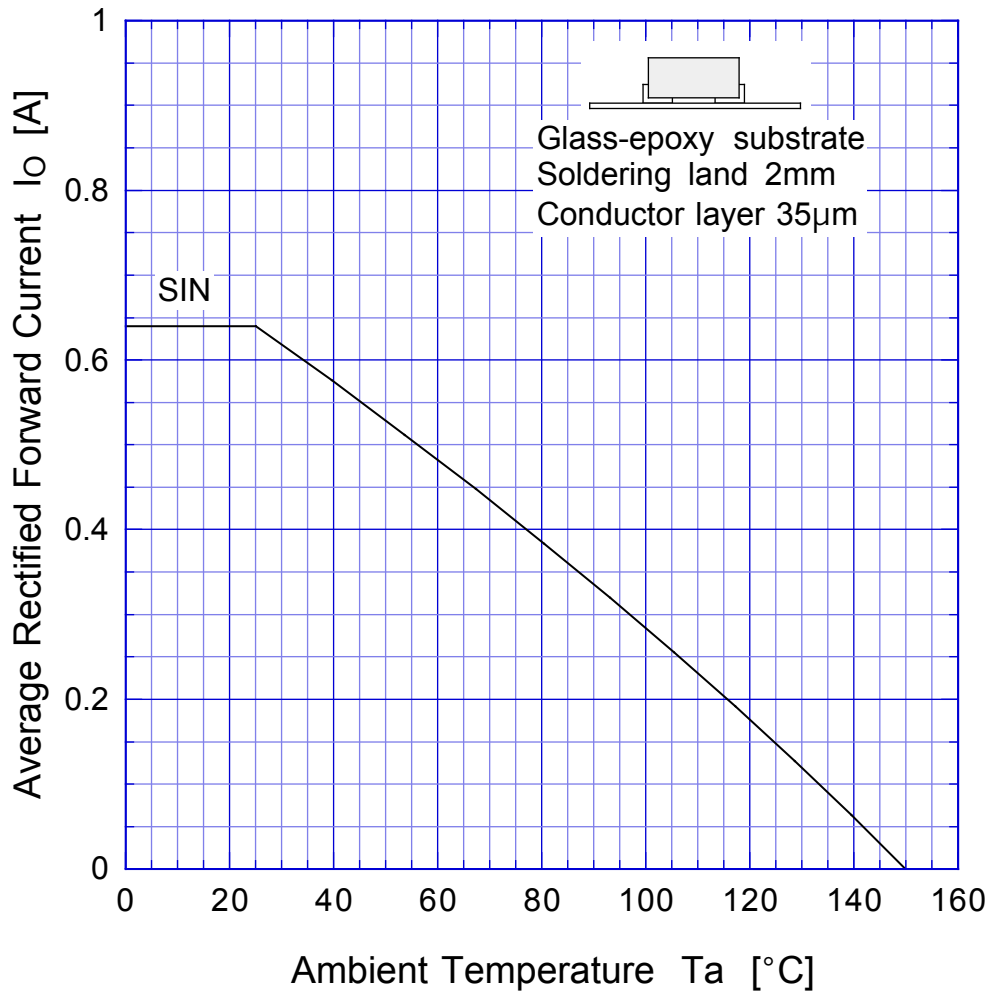
Derating Curve



Sine wave
R-load
Free in air

M1Fx

Derating Curve



Sine wave
R-load
Free in air

M1Fx

Peak Surge Forward Capability

