

SHINDENG

General Purpose Rectifiers

SMT Bridges

S1WB(A)80

800V 1A

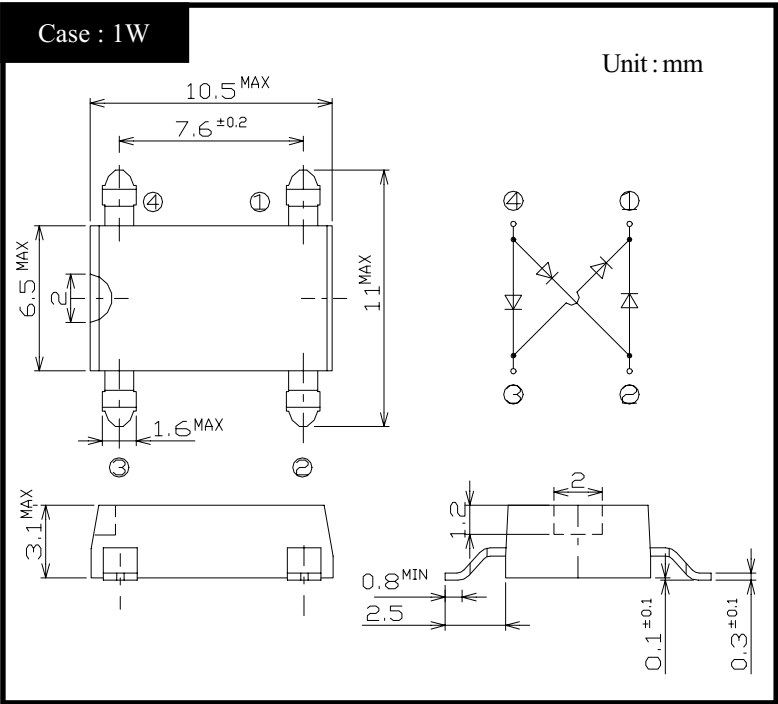
FEATURES

- Small SMT
- High IFSM
- Applicable to Automatic Insertion

APPLICATION

- Switching power supply
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

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

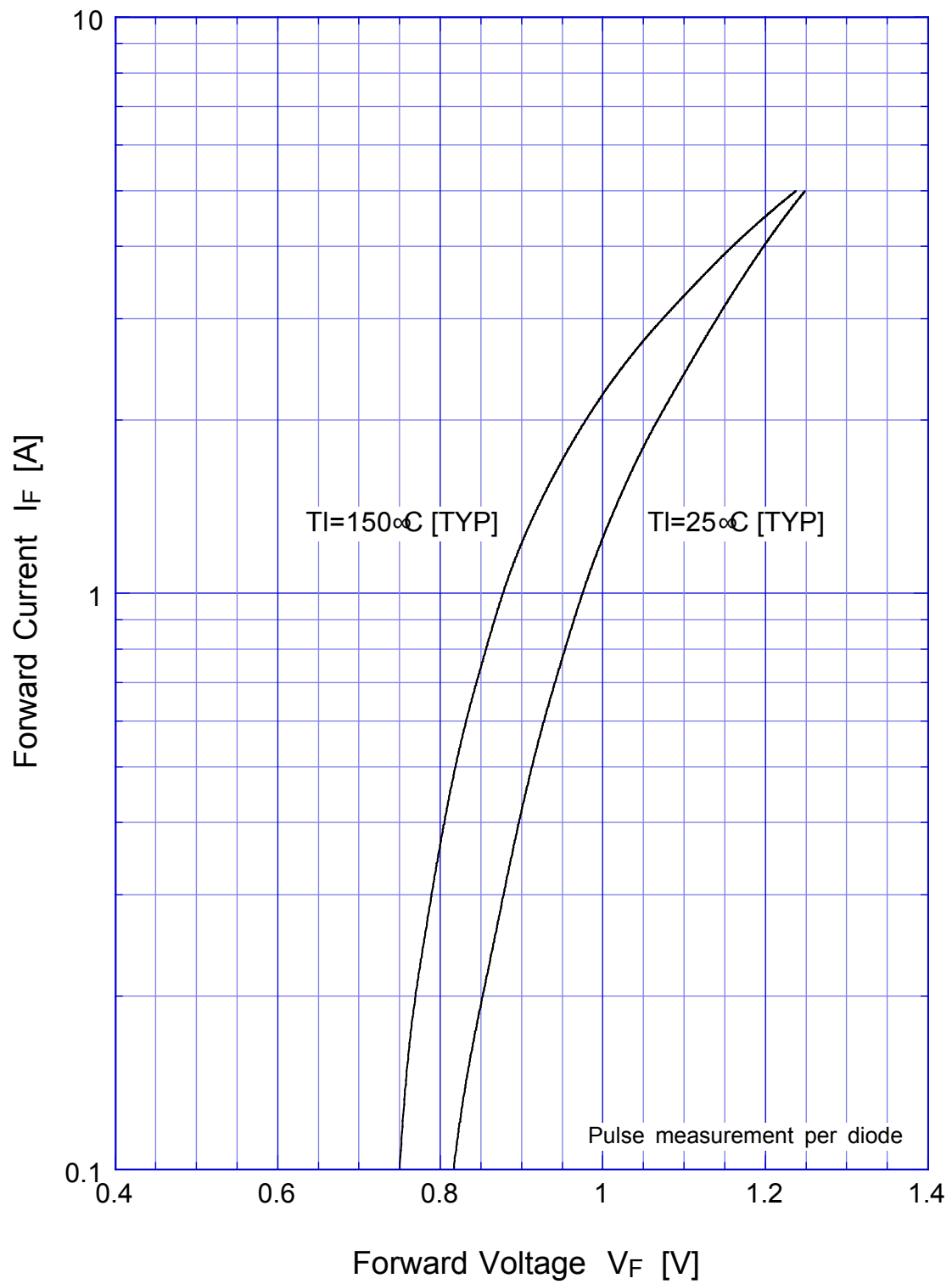
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T stg		-40~150	°C
Operating Junction Temperature	T j		150	°C
Maximum Reverse Voltage	V RM		800	V
Average Rectified Forward Current	I O	50Hz sine wave, R-load, Ta=25°C	1	A
Peak Surge Forward Current	I FSM	50Hz sine wave, Non-repetitive 1 cycle peak value, T j=25°C	30	A
Current Squared Time	I ² t	1ms≤t<10ms T j=25°C	4.5	A ² s

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

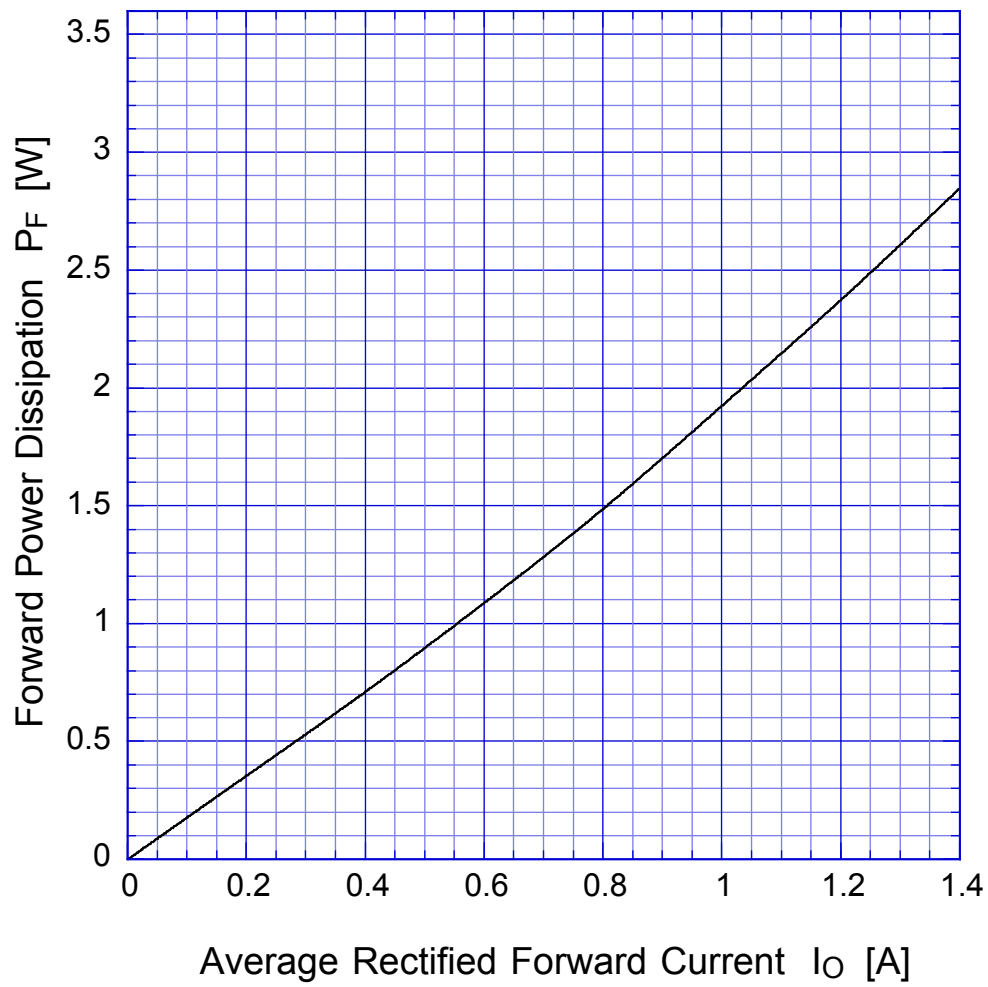
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V F	I F=0.5A, Pulse measurement, Rating of per diode	Max.1.0	V
Reverse Current	I R	V R=V RM, Pulse measurement, Rating of per diode	Max.10	μ A
Thermal Resistance	θ j l	junction to lead	Max.10	°C/W
	θ j a	junction to ambient	Max.65	

S1WB(A)x

Forward Voltage



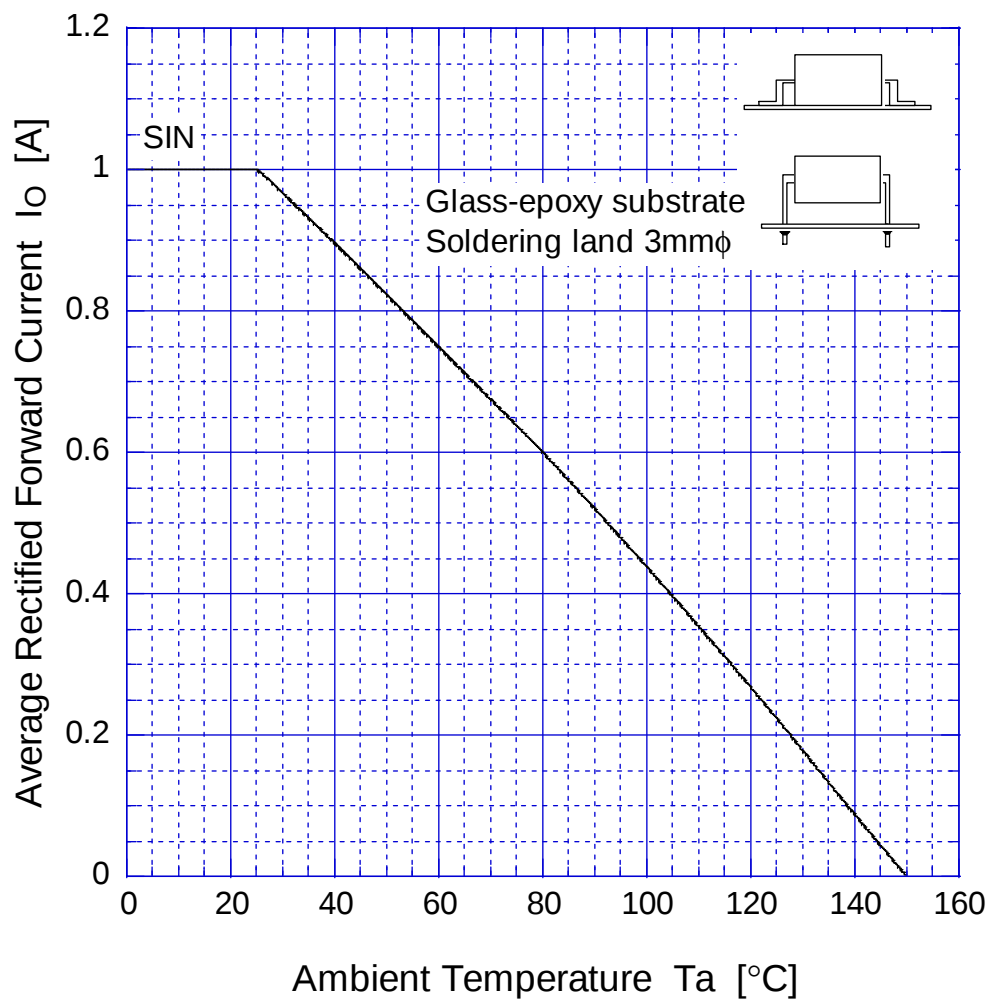
S1WB(A)x Forward Power Dissipation



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

S1WB(A)x

Derating Curve



Sine wave

R-load

Free in air

S1WB(A)x

Peak Surge Forward Capability

