

S1WB(A)20

200V 1A

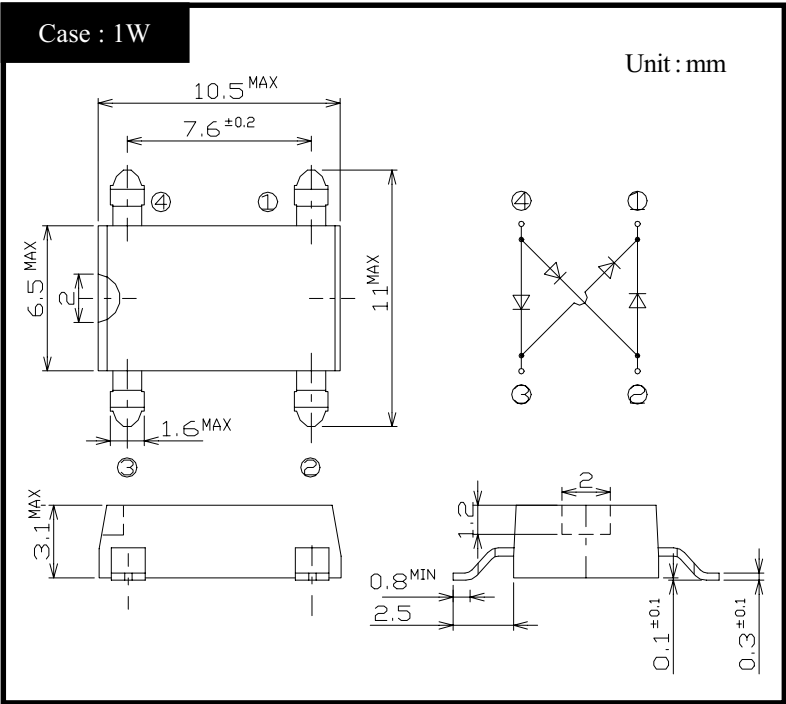
FEATURES

- 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)

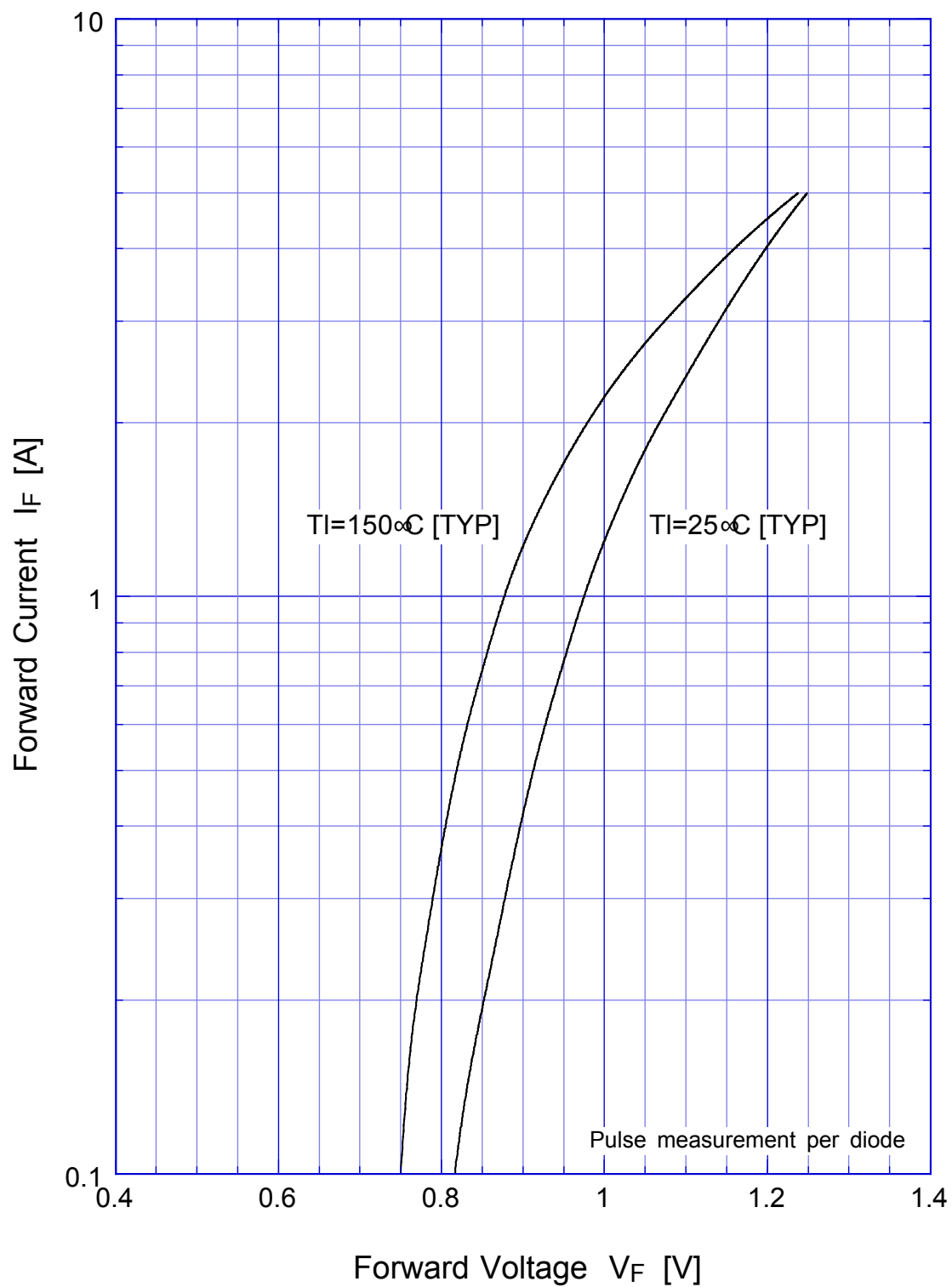
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		200	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Ta=25°C	1	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	30	A
Current Squared Time	I ² t	1ms ≤ t < 10ms Tj=25°C	4.5	A ² s

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

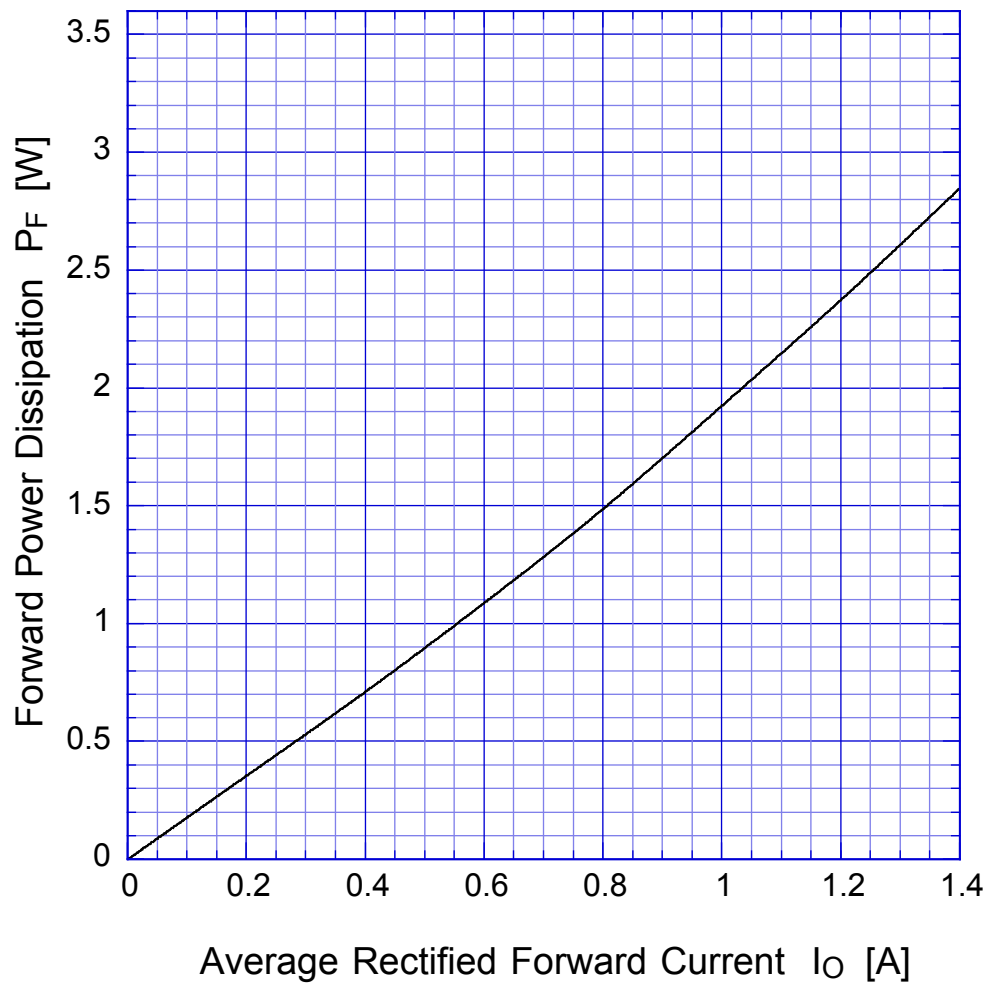
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=0.5A, Pulse measurement, Rating of per diode	Max.1.0	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θjl	junction to lead	Max.10	°C/W
	θja	junction to ambient	Max.65	

S1WB(A)x

Forward Voltage



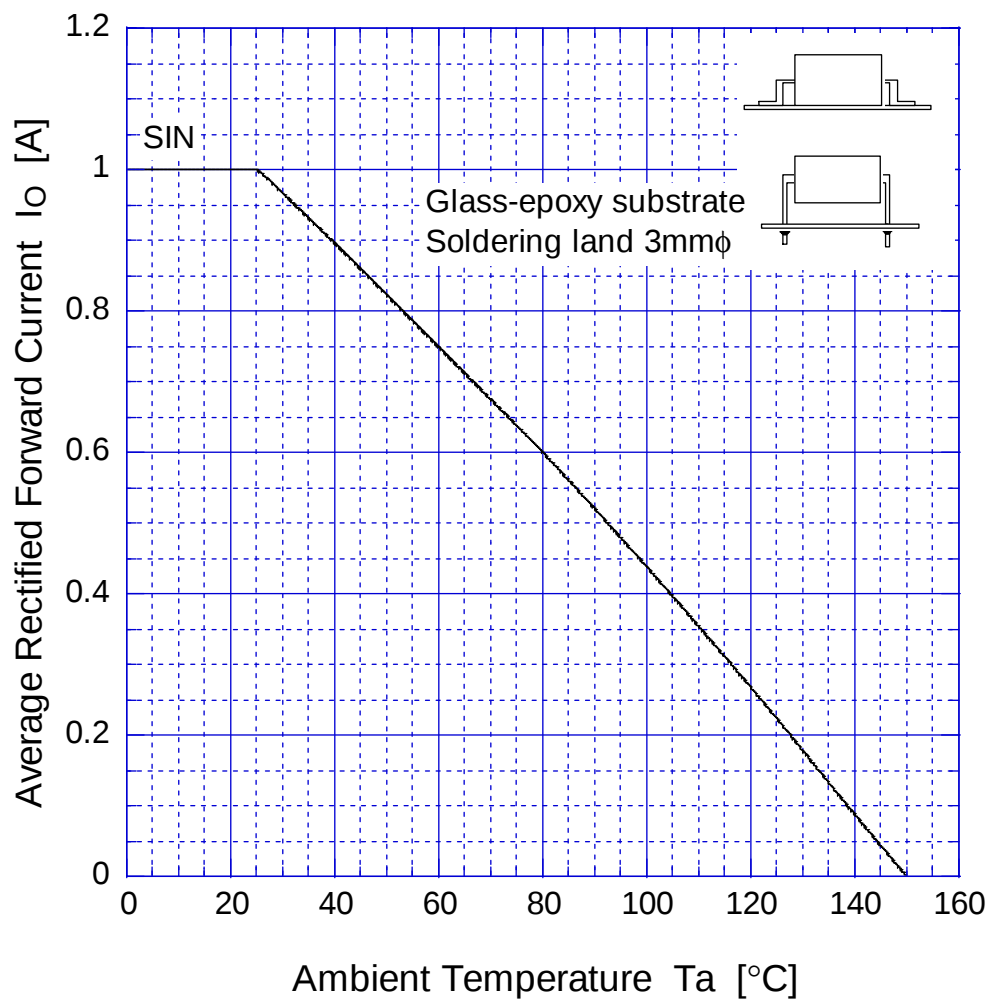
S1WB(A)x Forward Power Dissipation



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

S1WB(A)x

Derating Curve



Sine wave
R-load
Free in air

S1WB(A)x

Peak Surge Forward Capability

