

SHINDENGEN

General Purpose Rectifiers

SMT Bridges

S1WB(A)20

200V 1A

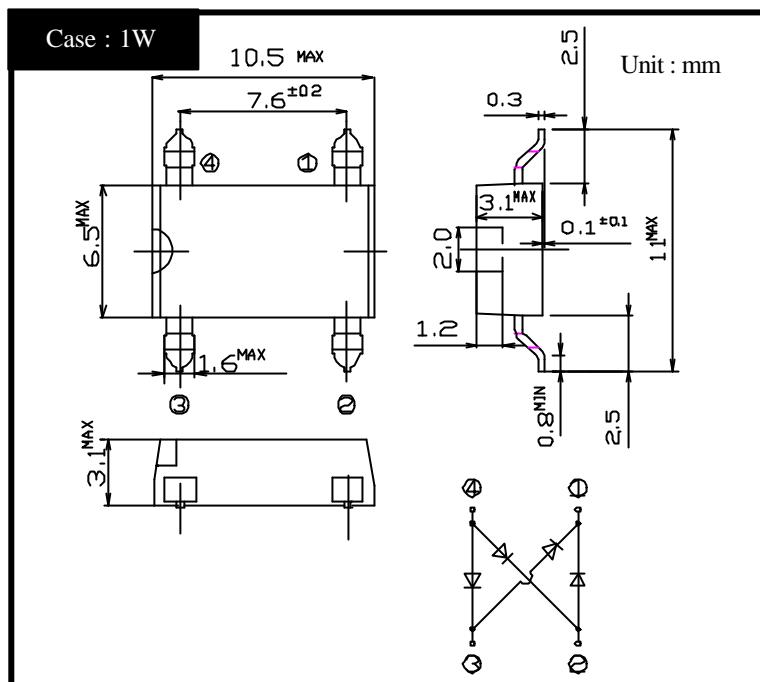
FEATURES

Small SMT
High IFSM
Applicable to Automatic Insertion

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

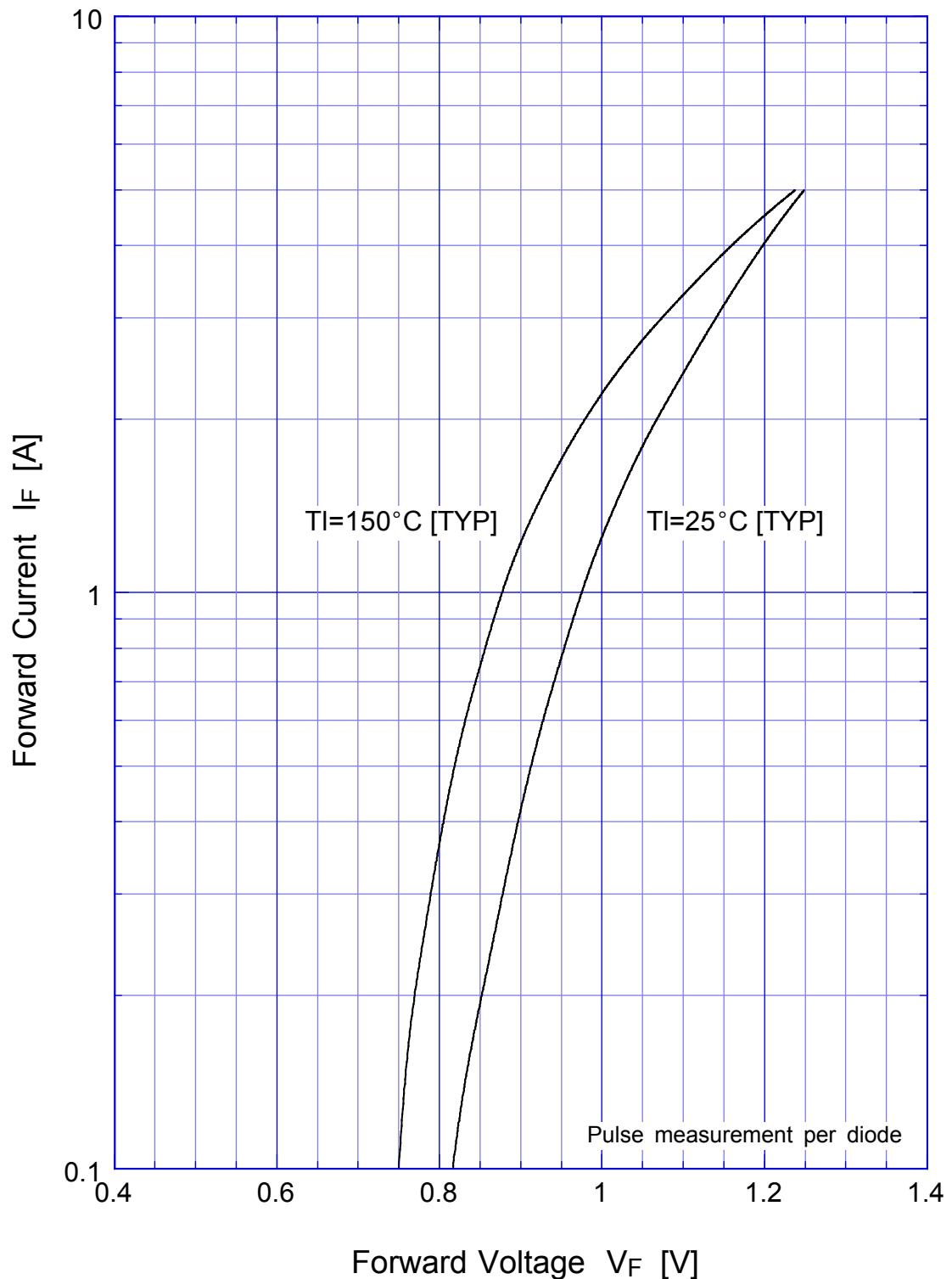
Absolute Maximum Ratings (If not specified $T_{j}=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-40 ~ 150	
Operating Junction Temperature	T_j		150	
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$	1	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	30	A
Current Squared Time	I^2t	1ms $t < 10\text{ms}$ $T_j=25^{\circ}\text{C}$	4.5	A^2s

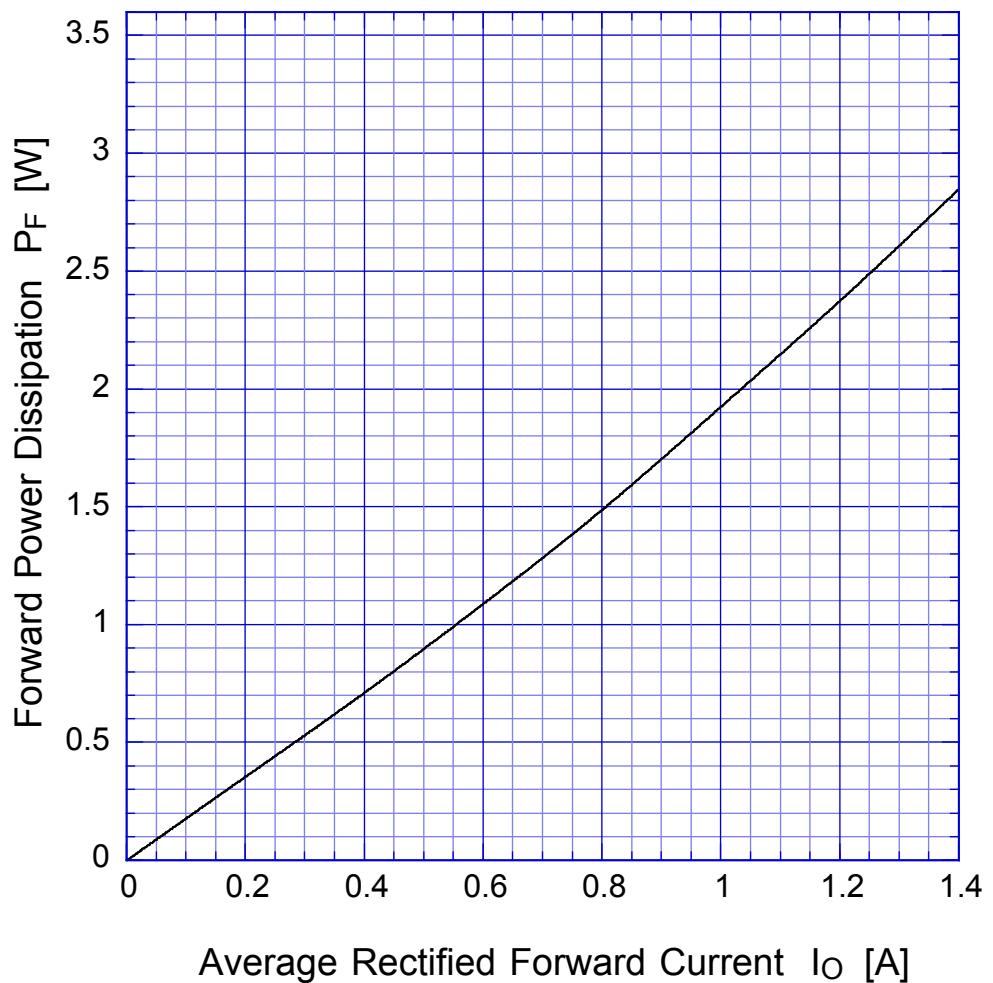
Electrical Characteristics (If not specified $T_{j}=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=0.5\text{A}$, 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	μA
Thermal Resistance	j_l	junction to lead	Max.10	/W
	j_a	junction to ambient	Max.65	

S1WB(A)x Forward Voltage



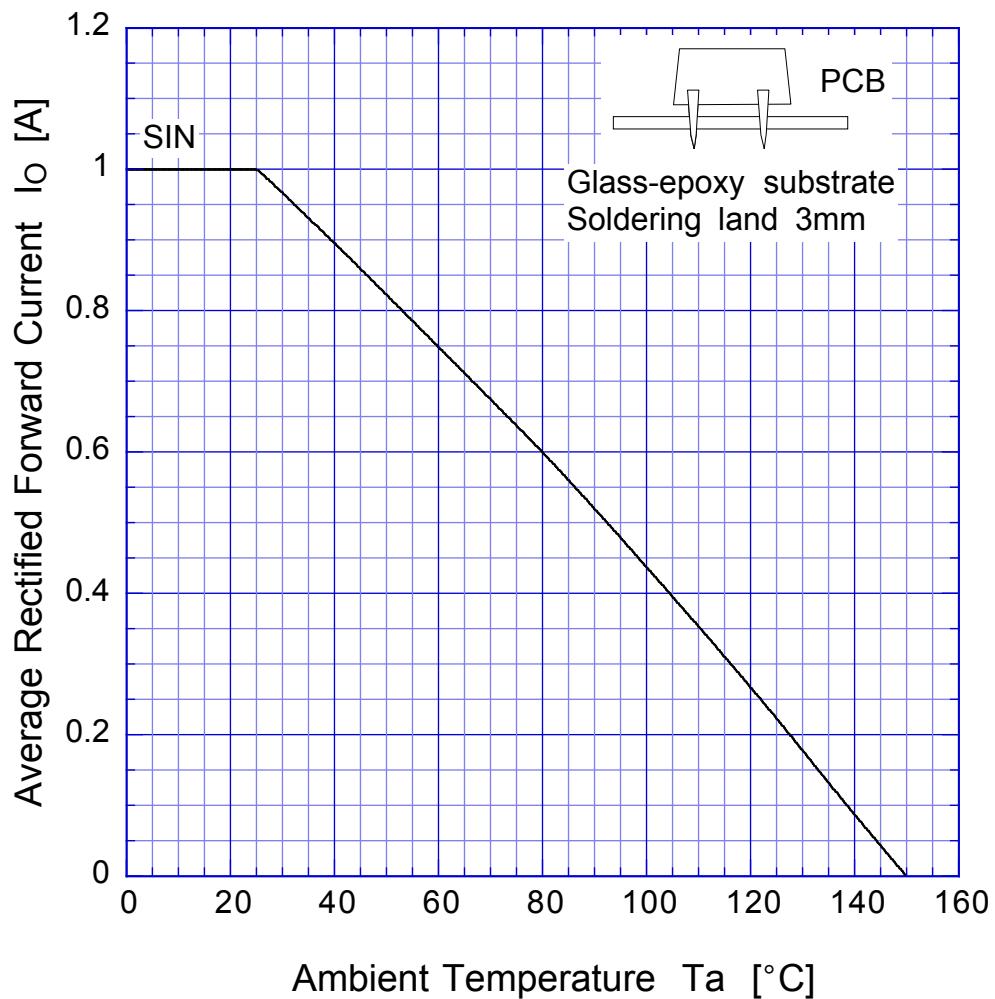
S1WB(A) Forward Power Dissipation



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

S1WB(A)x

Derating Curve



Sine wave
R-load
Free in air

S1WB(A)x

Peak Surge Forward Capability

