

SHINDENGEN

General Purpose Rectifiers

SMT Bridges

S1WB(A)60B

600V 1A

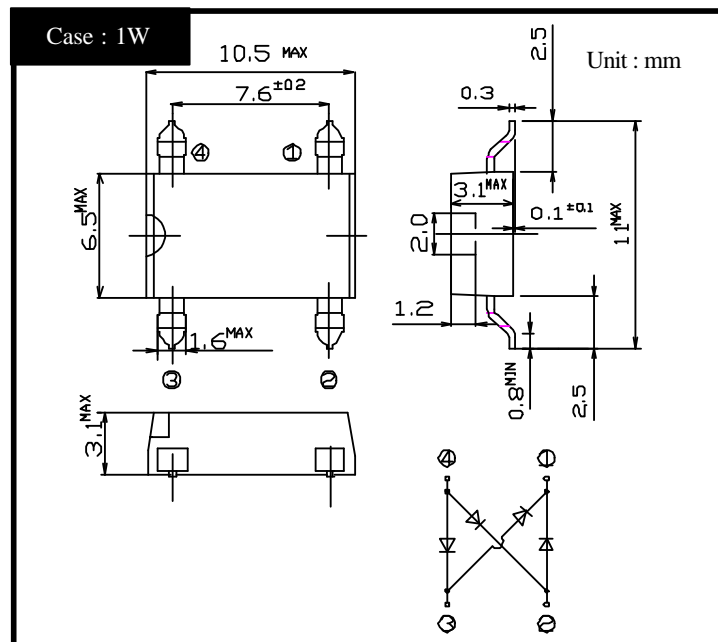
FEATURES

- Small SMT
- High IFSM
- Applicable to Automatic Insertion

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

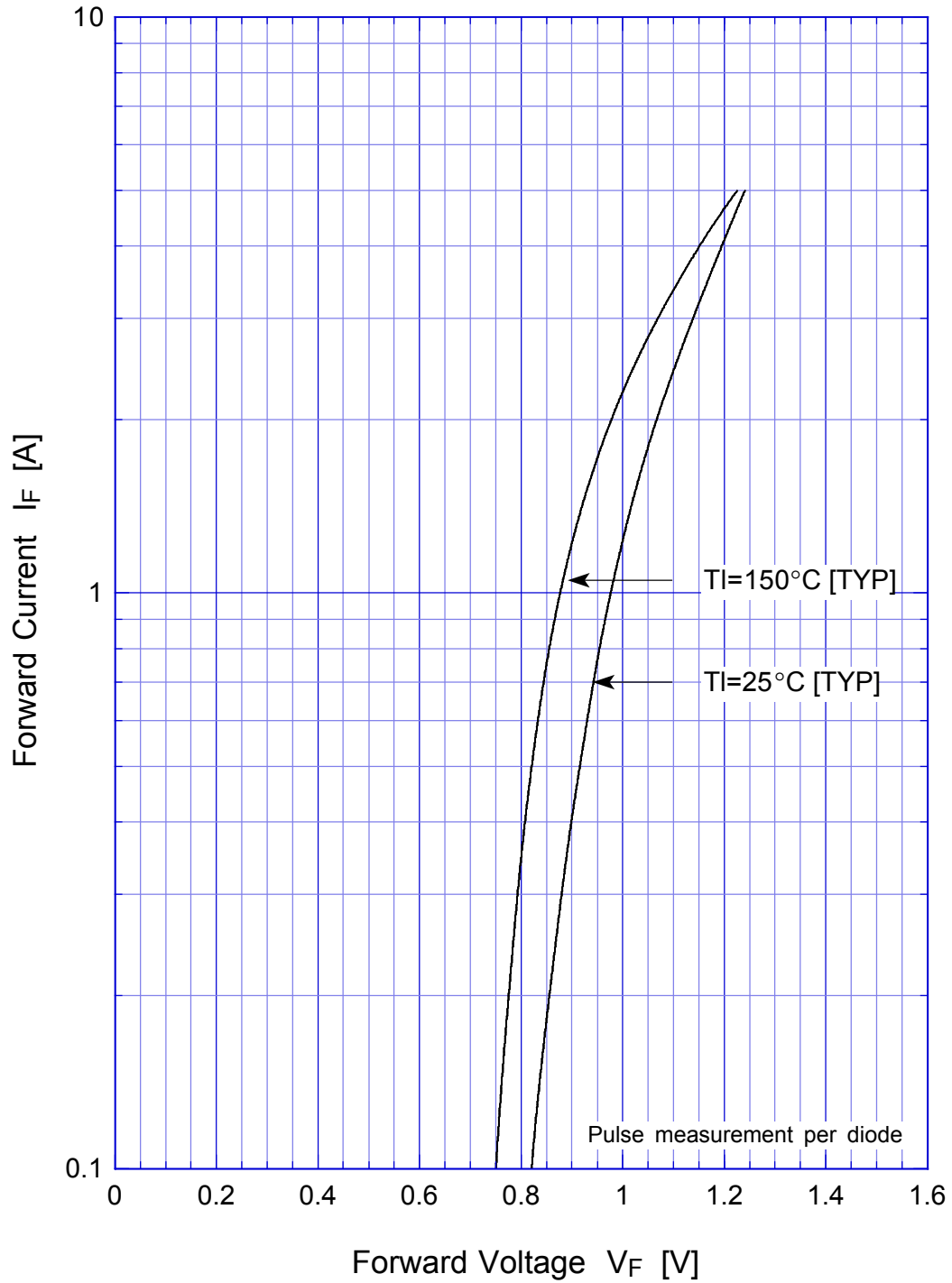
• Absolute Maximum Ratings (If not specified $T_l=25^\circ\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-40 ~ 150	$^\circ\text{C}$
Operating Junction Temperature	T_j		150	$^\circ\text{C}$
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_{OAV}	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	50	A
Current Squared Time	I^2t	1ms...t<10ms @ $T_j=25^\circ\text{C}$	16	A^2s

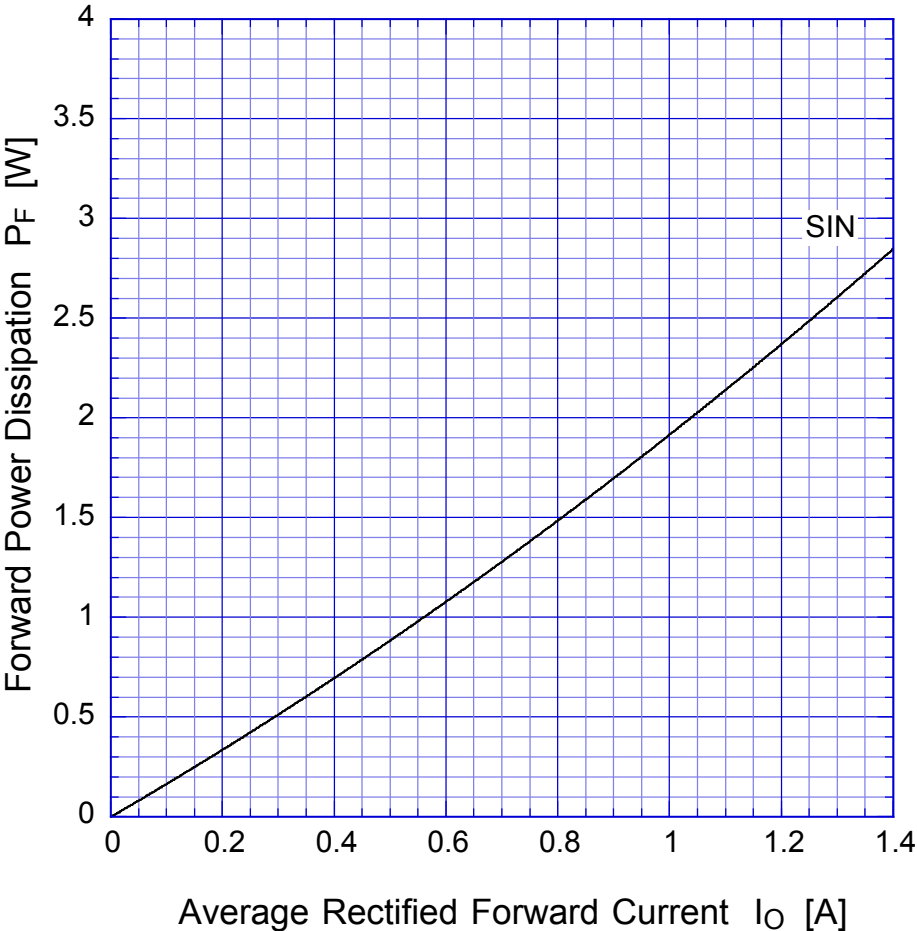
• Electrical Characteristics (If not specified $T_l=25^\circ\text{C}$)

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	θ_{j-l}	junction to lead	Max.10	$^\circ\text{C}/\text{W}$
	θ_{j-a}	junction to ambient	Max.65	$^\circ\text{C}/\text{W}$

S1WB(A)60B Forward Voltage

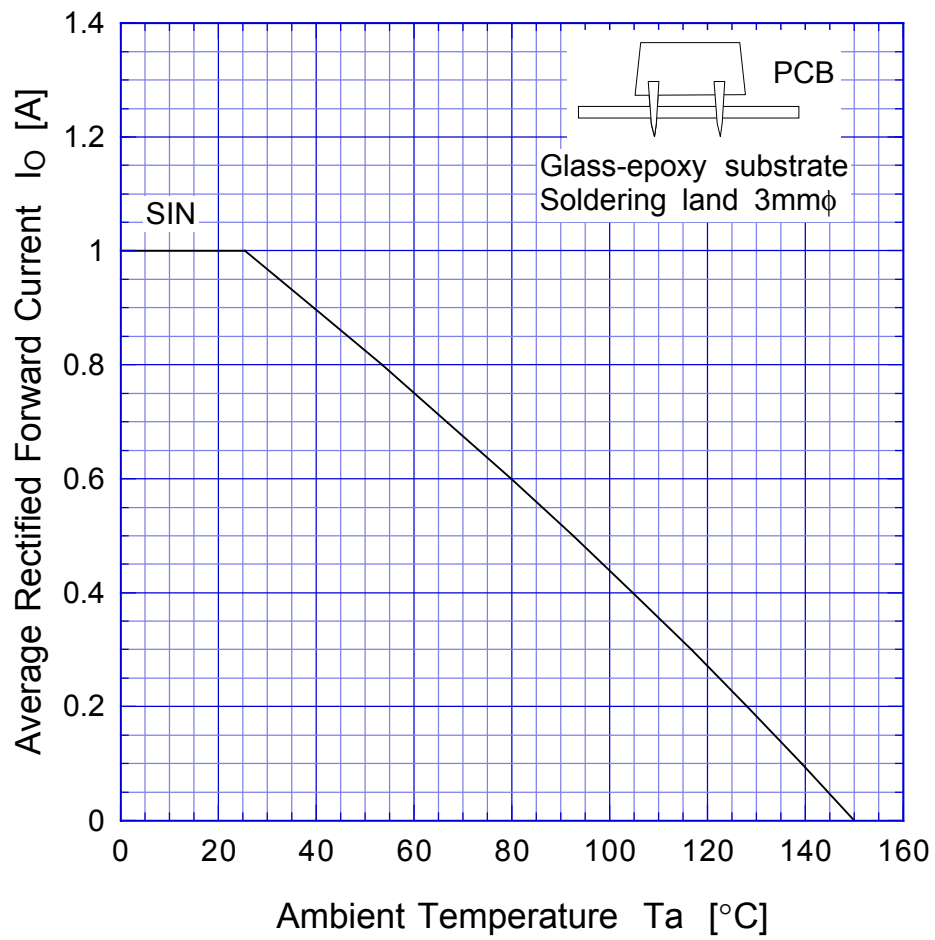


S1WB(A)60B Forward Power Dissipation



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

S1WB(A)60B Derating Curve



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

S1WB(A)60B Peak Surge Forward Capability

