

SHINDENGEN

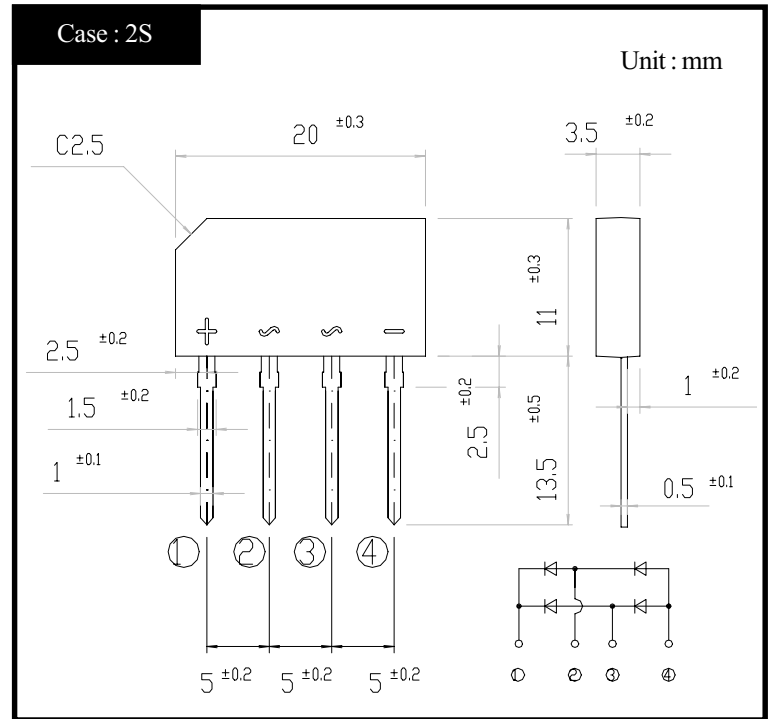
General Purpose Rectifiers

SIL Bridges

D2SB60A

600V 2A

OUTLINE DIMENSIONS



RATINGS

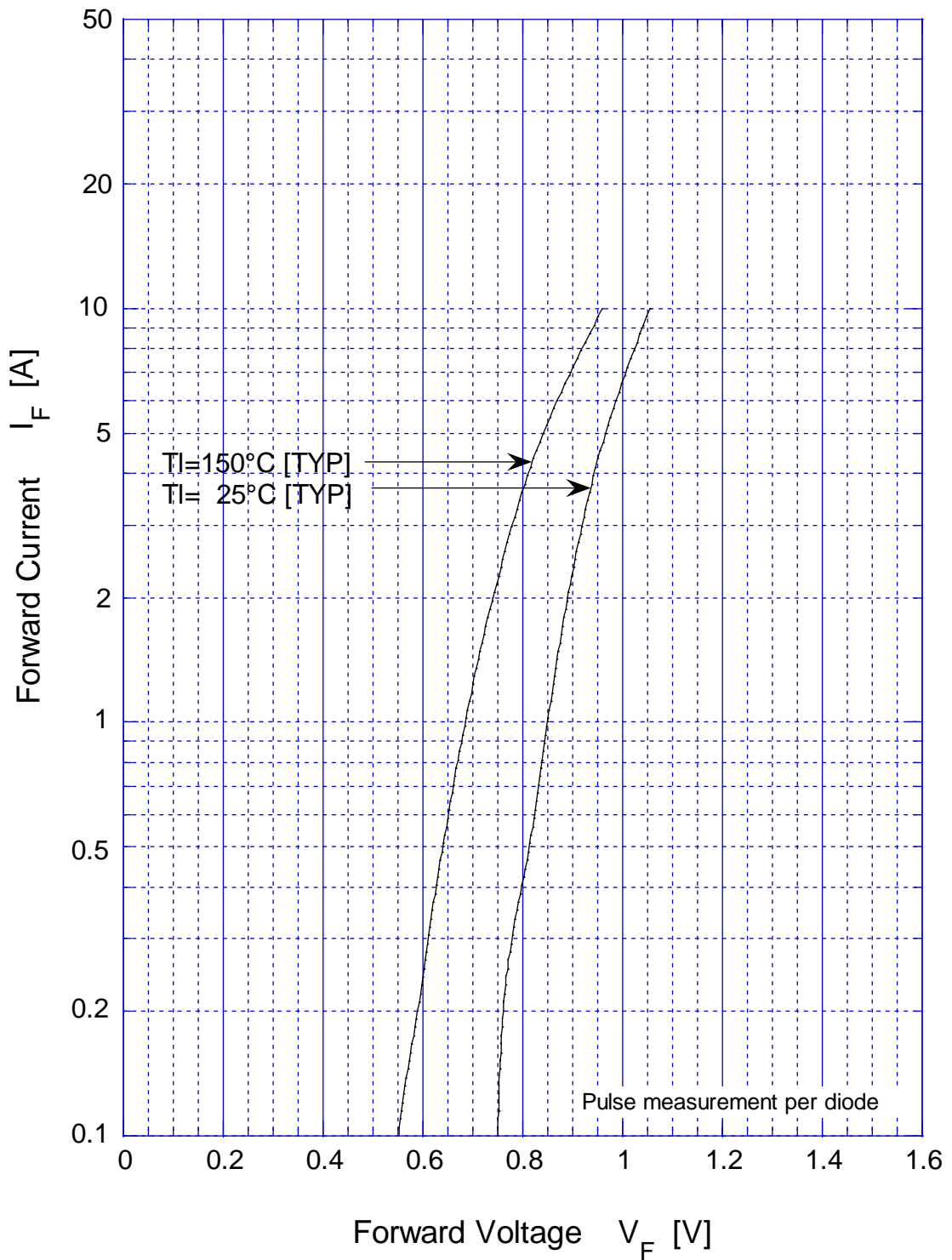
● Absolute Maximum Ratings (If not specified $T_I=25^\circ\text{C}$)

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_O	50Hz sine wave, R-load $T_I=115^\circ\text{C}$	2.0	A
		50Hz sine wave, R-load $T_a=25^\circ\text{C}$	1.5	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^\circ\text{C}$	120	A
Current Squared Time	I^2t	$1\text{ms} \leq t < 10\text{ms}$ $T_j=25^\circ\text{C}$	60	A^2s

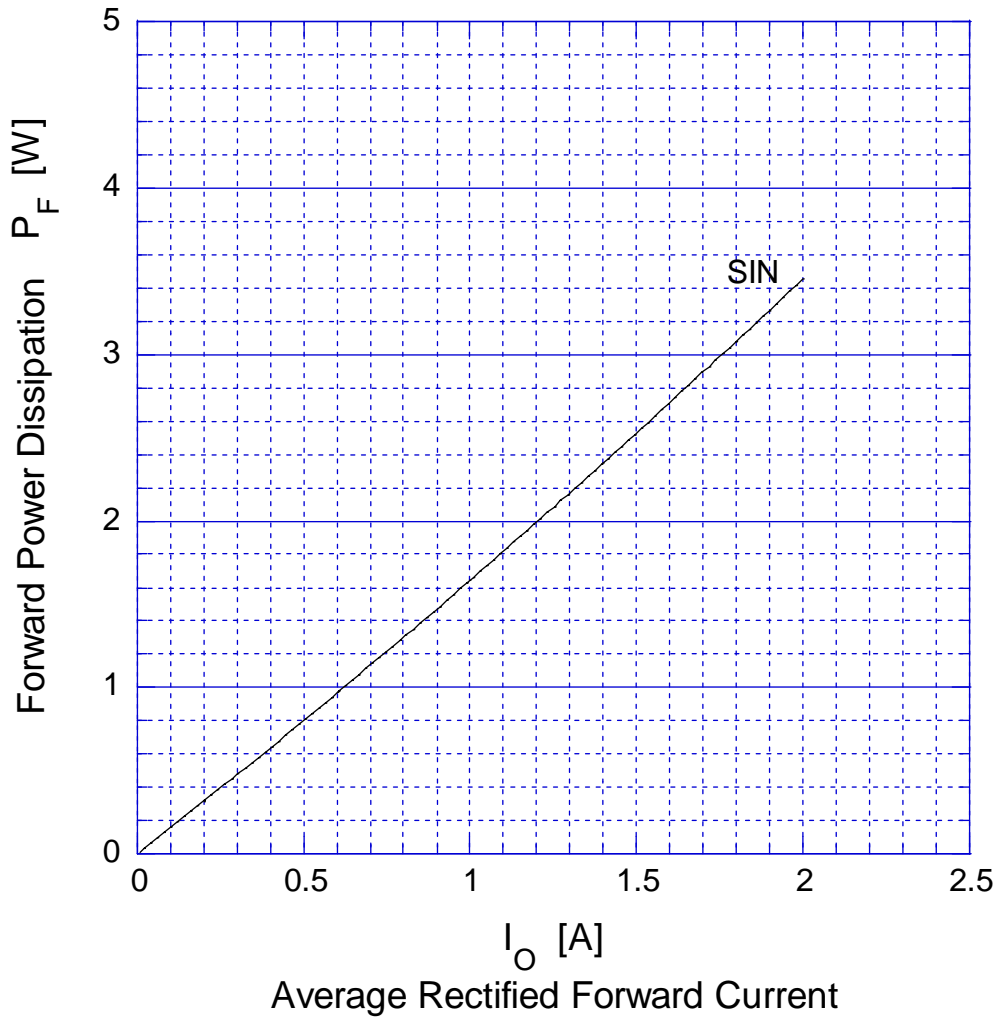
● Electrical Characteristics (If not specified $T_I=25^\circ\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=1\text{A}$, Pulse measurement, Rating of per diode	Max.0.95	V
Reverse Current	I_R	$V_R=600\text{V}$, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ_{jl}	junction to lead	Max.10	$^\circ\text{C}/\text{W}$
	θ_{ja}	junction to ambient	Max.47	

D2SB x A Forward Voltage

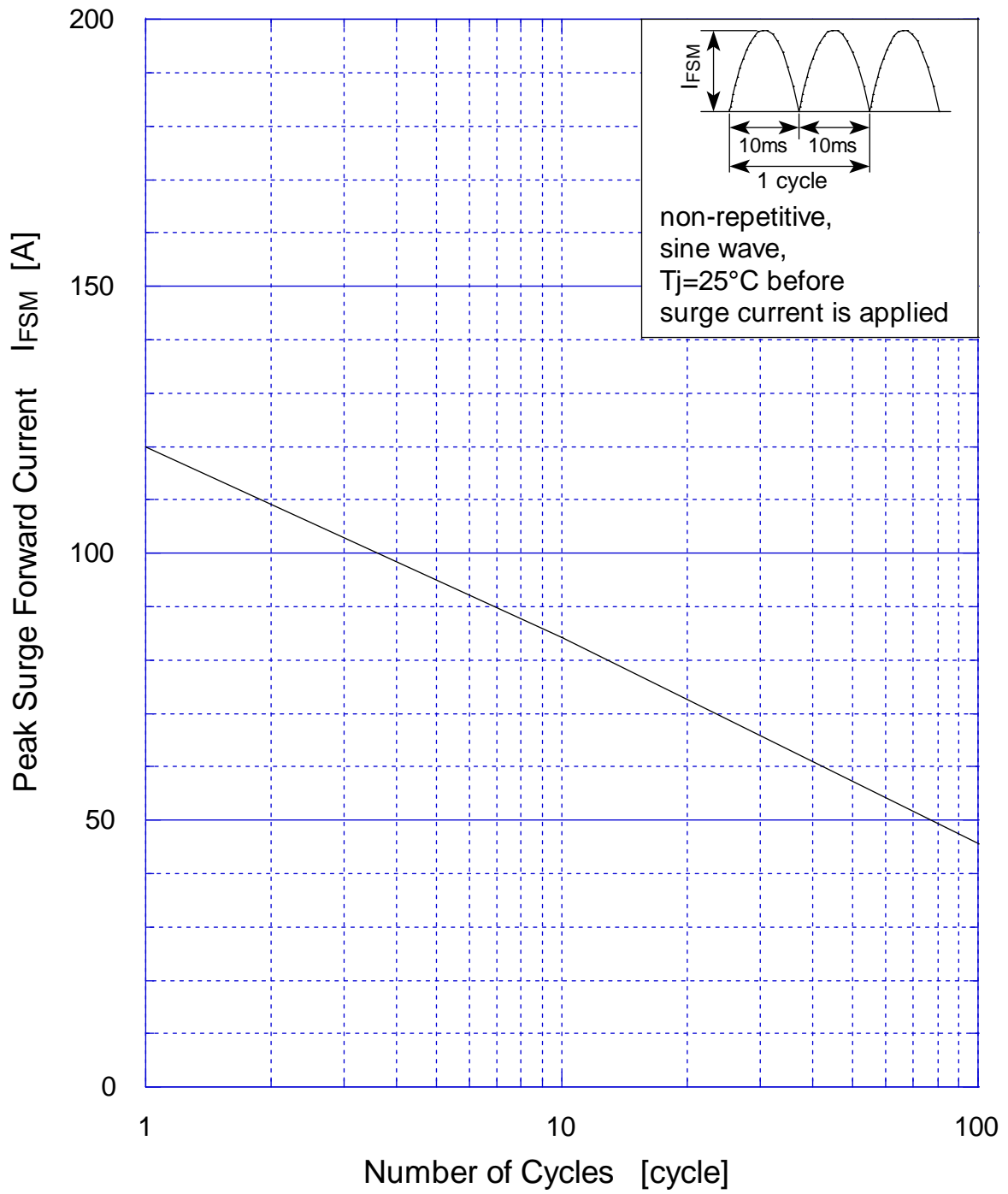


D2SB x A Forward Power Dissipation



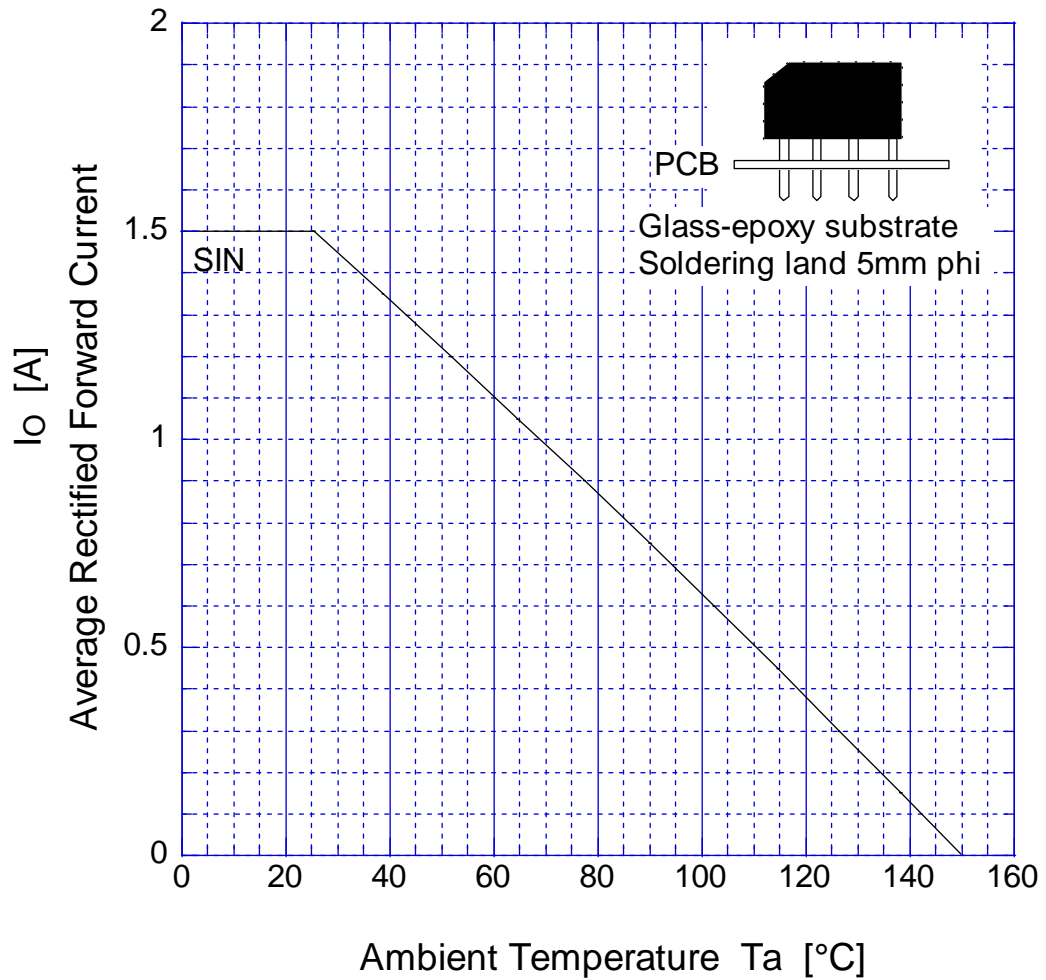
$T_j = 150^\circ\text{C}$
sine wave

D2SB x A Peak Surge Forward Capability



D2SB x A

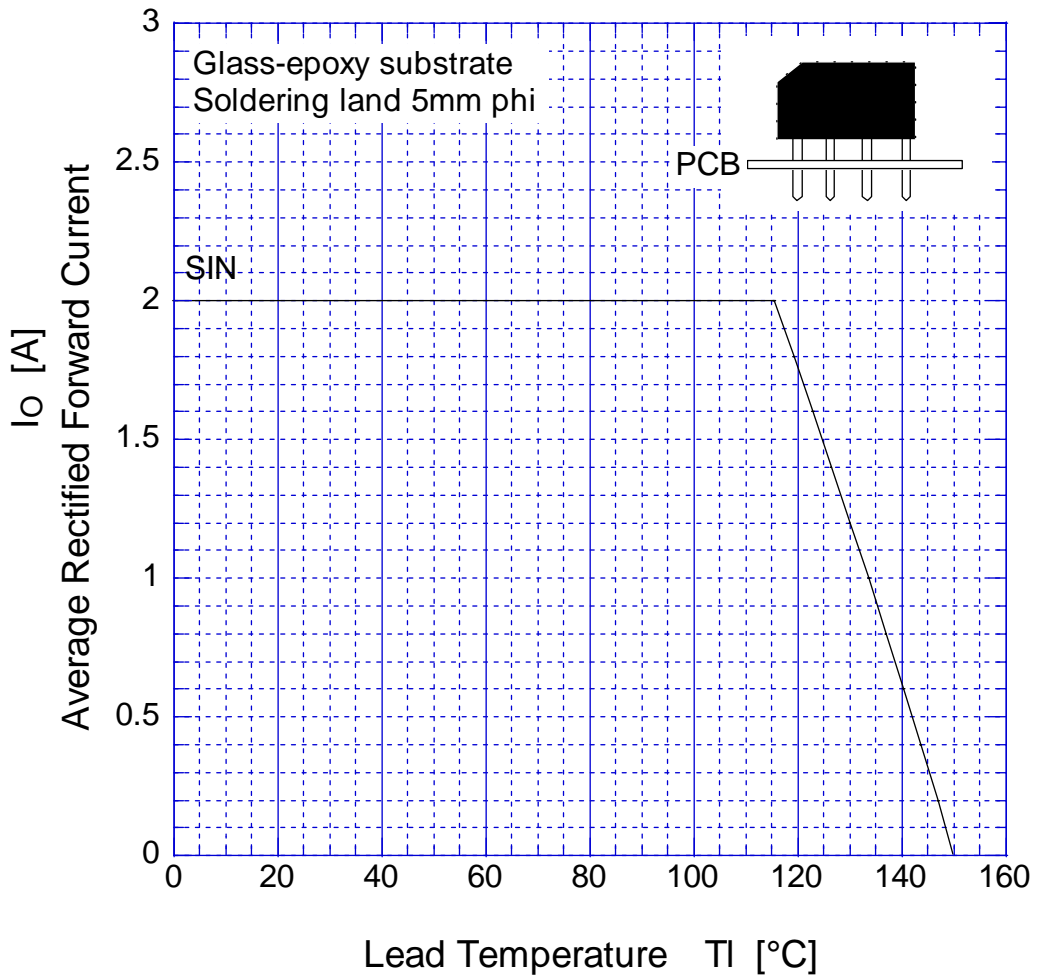
Derating Curve



Sine wave
R - load
Free in air

D2SB x A

Derating Curve



Sine wave
R - load
Free in air