

# SHINDENGEN

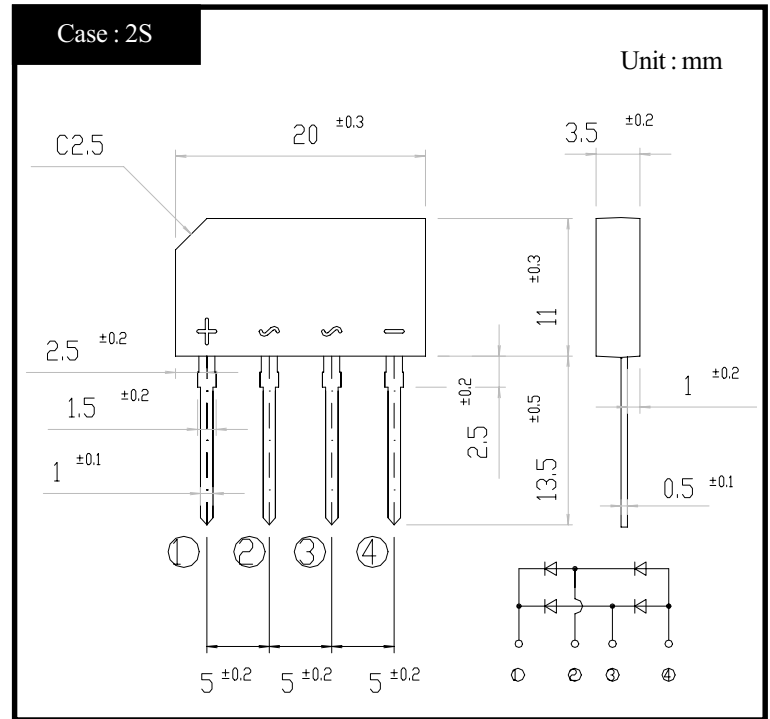
## General Purpose Rectifiers

SIL Bridges

# D2SB60A

## 600V 2A

### OUTLINE DIMENSIONS



### RATINGS

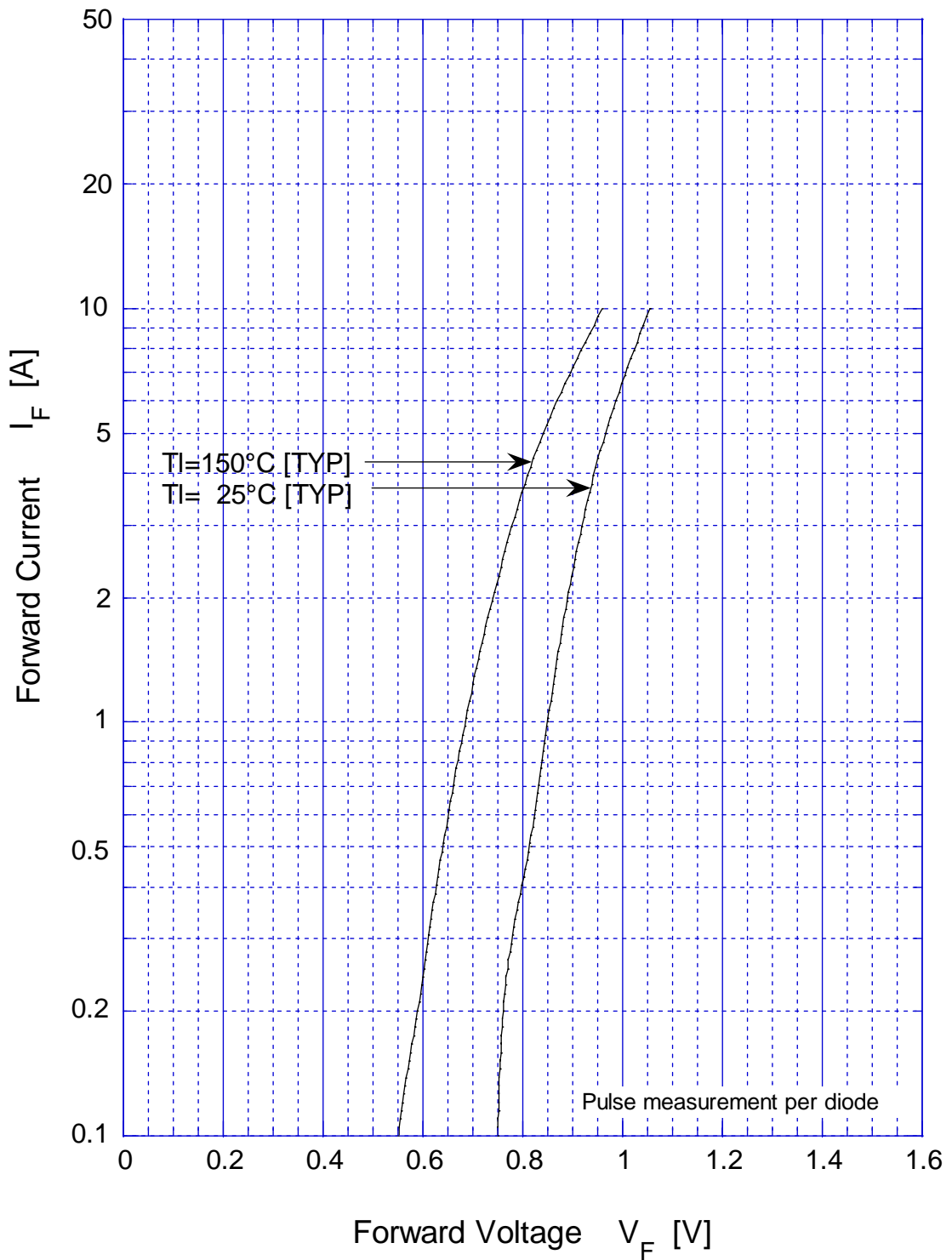
● Absolute Maximum Ratings (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-40~150	°C
Operating Junction Temperature	T <sub>j</sub>		150	°C
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load Tl=115°C	2.0	A
		50Hz sine wave, R-load Ta=25°C	1.5	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 °C	120	A
Current Squared Time	I <sup>2</sup> t	1ms ≤ t < 10ms Tj=25°C	60	A <sup>2</sup> s

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

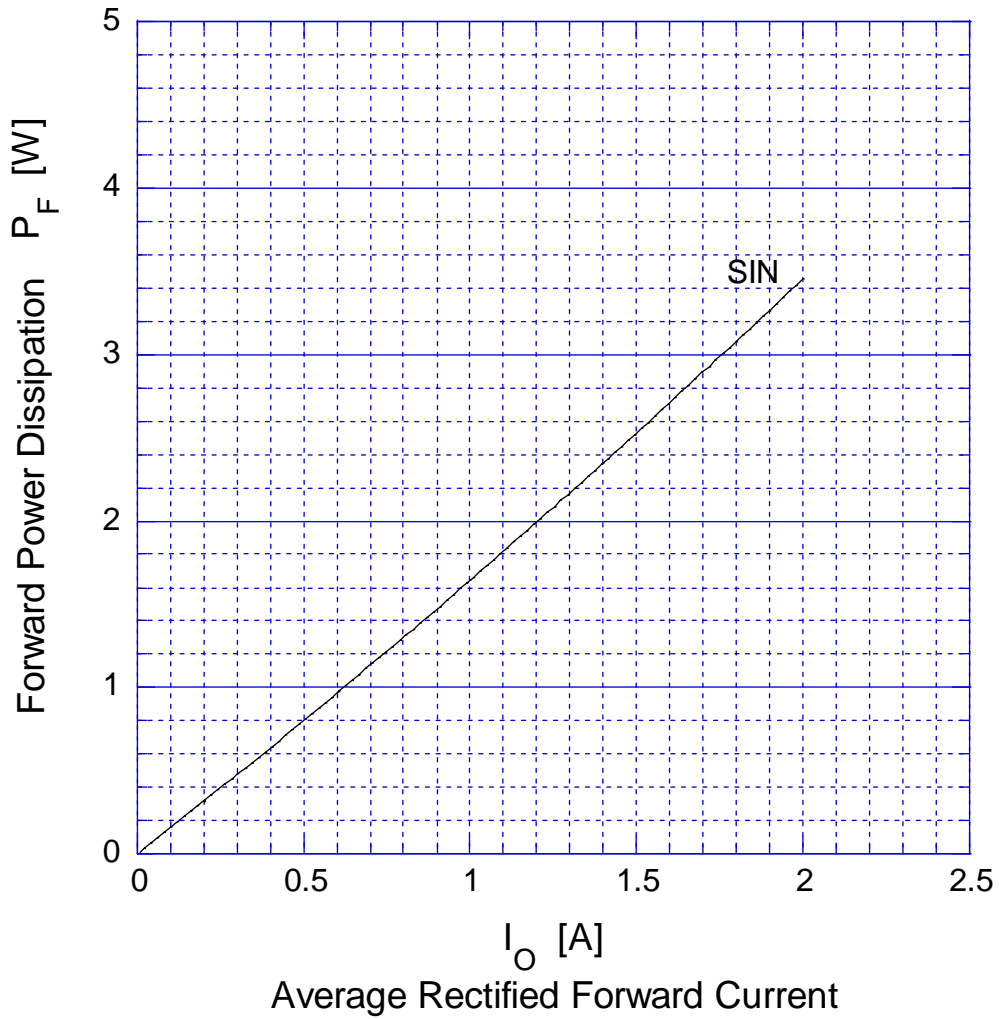
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1A, Pulse measurement, Rating of per diode	Max.0.95	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =600V, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ <sub>jl</sub>	junction to lead	Max.10	°C/W
	θ <sub>ja</sub>	junction to ambient	Max.47	

# D2SB x A Forward Voltage



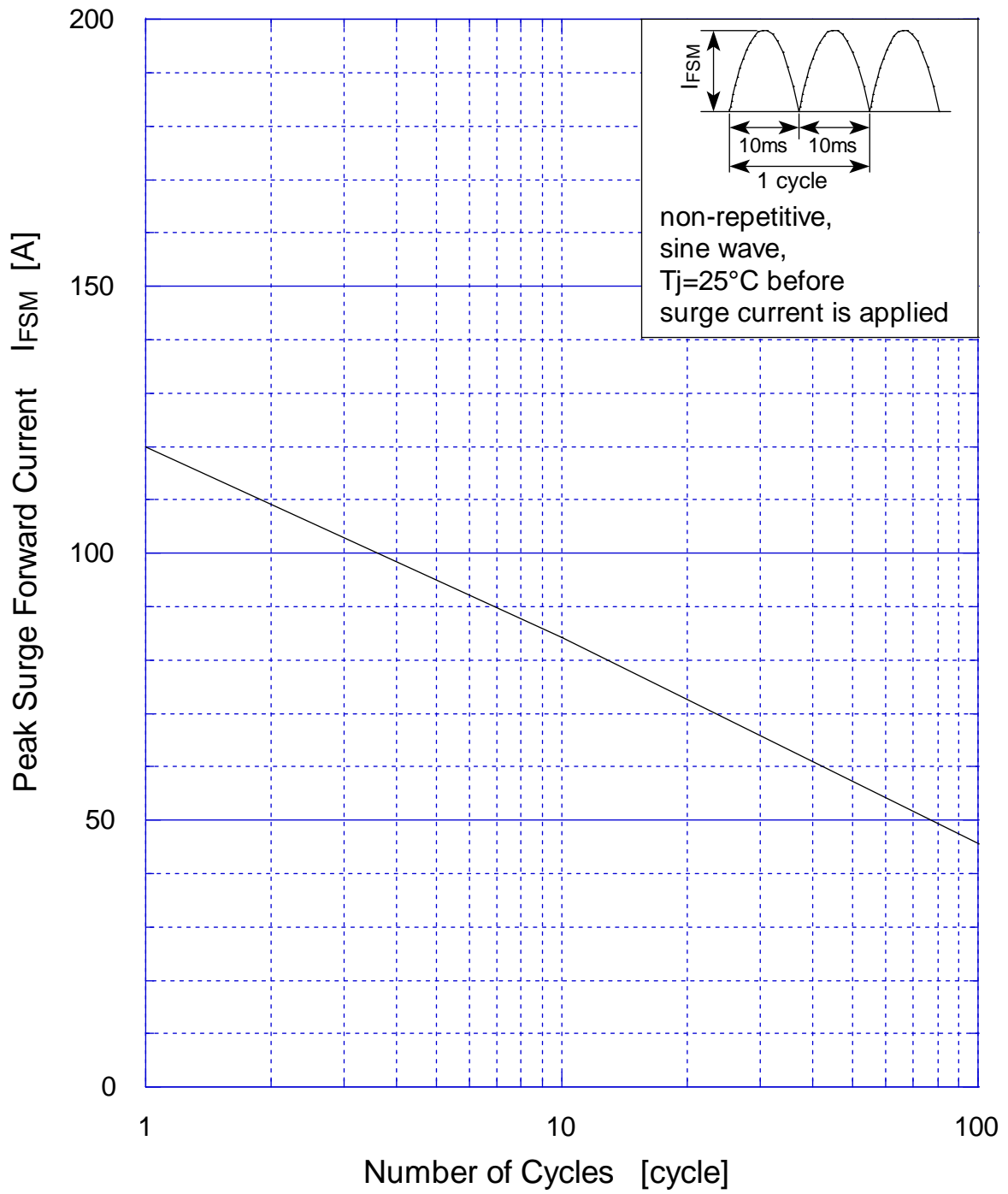
## D2SB x A Forward Power Dissipation

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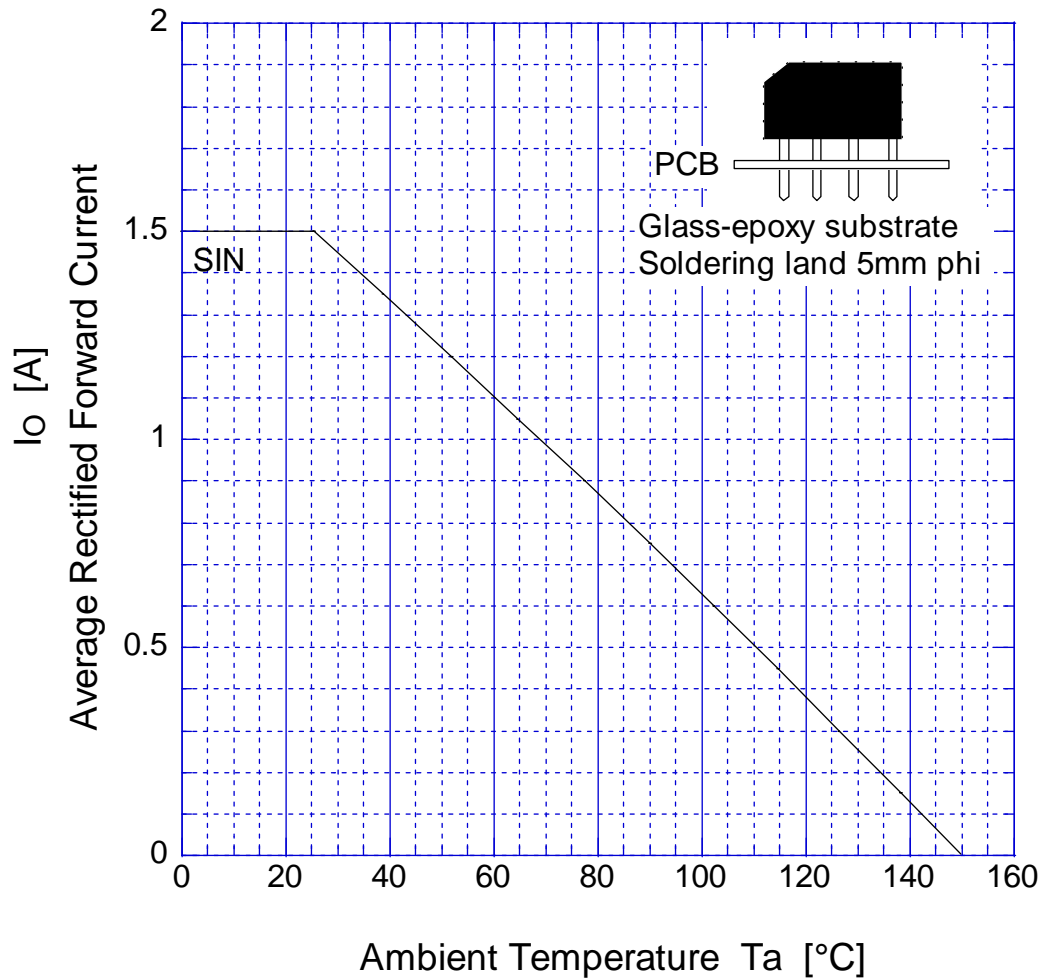
$T_j = 150^\circ\text{C}$   
sine wave

## D2SB x A Peak Surge Forward Capability



# D2SB x A

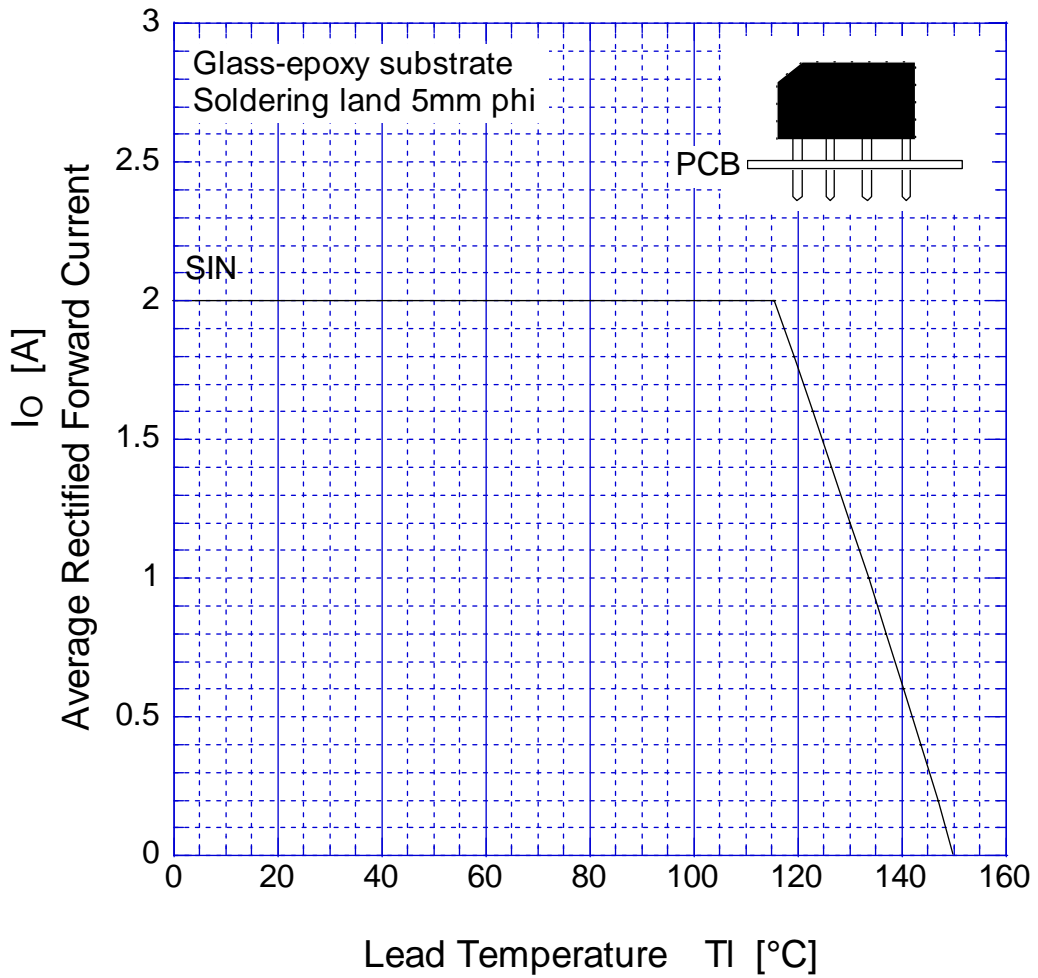
# Derating Curve



Sine wave  
R - load  
Free in air

# D2SB x A

# Derating Curve



Sine wave  
R - load  
Free in air