

SHINDENGEN

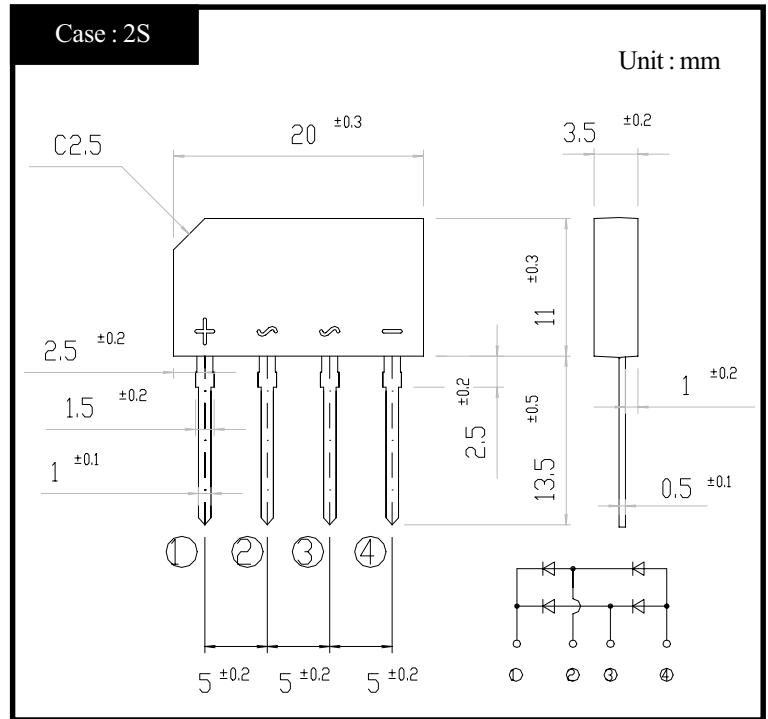
General Purpose Rectifiers

SIL Bridges

D2SB80A

800V 2A

OUTLINE DIMENSIONS



RATINGS

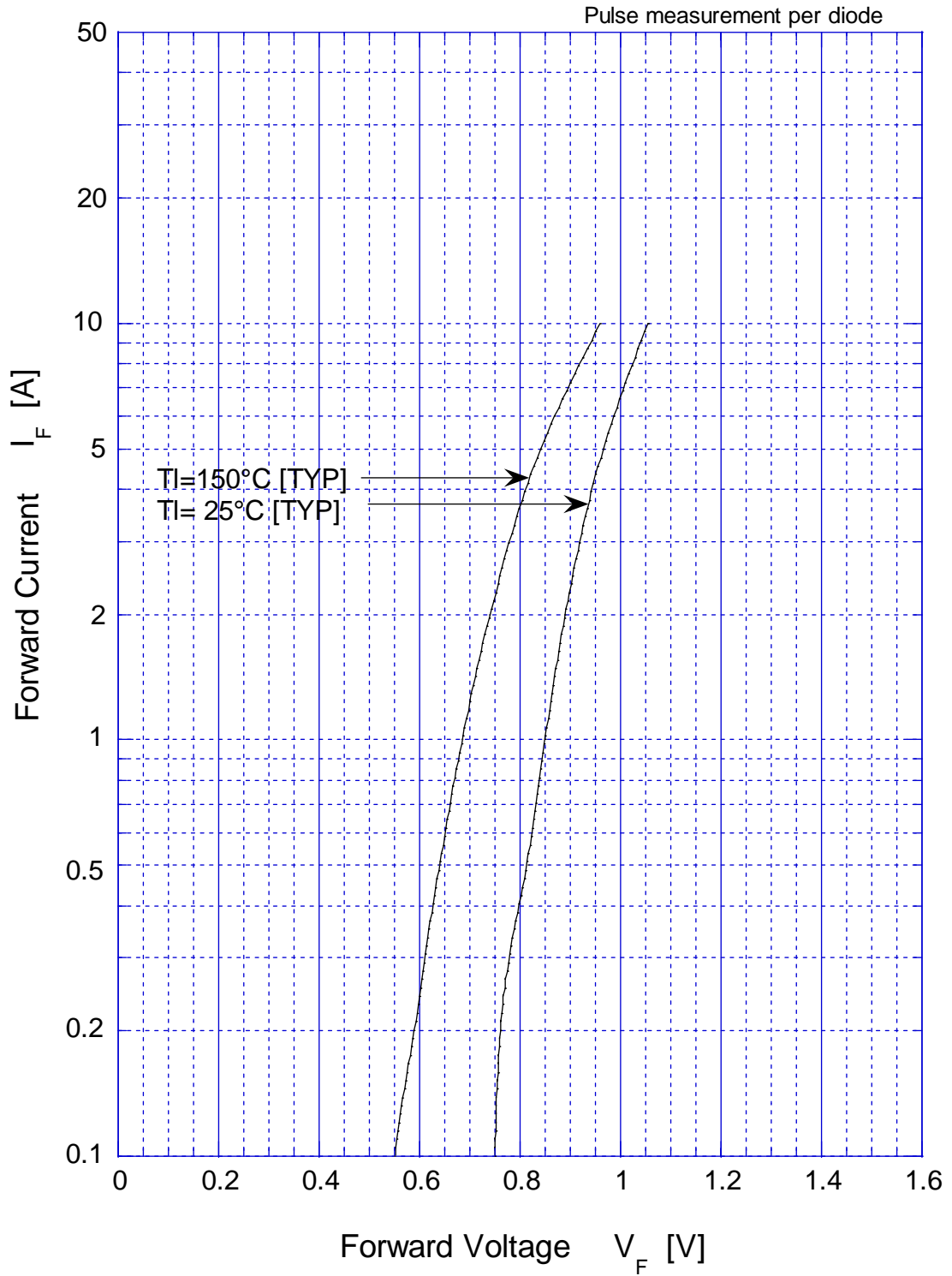
Absolute Maximum Ratings (If not specified, Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40 to 150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		800	V
Average Rectified Forward Current	I _O	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 _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 °C	120	A
Current Squared Time	I ² t	1ms ≤ t < 10ms Tj=25°C per diode	60	A ² s

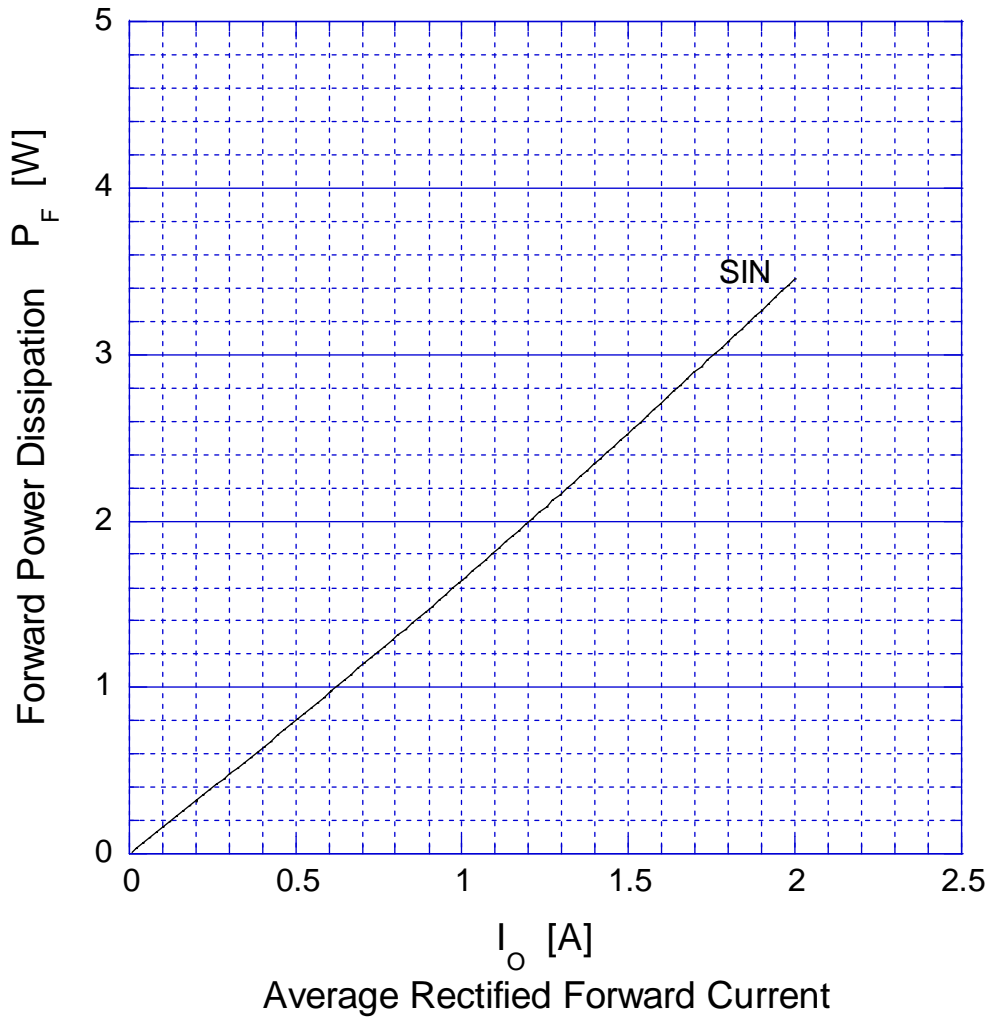
Electrical Characteristics (If not specified, Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =1A, Pulse measurement, Rating of per diode	Max.0.95	V
Reverse Current	I _R	V _R =800V, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ _{jl}	junction to lead	Max.10	°C/W
	θ _{ja}	junction to ambient	Max.47	

D2SB80A Forward Voltage



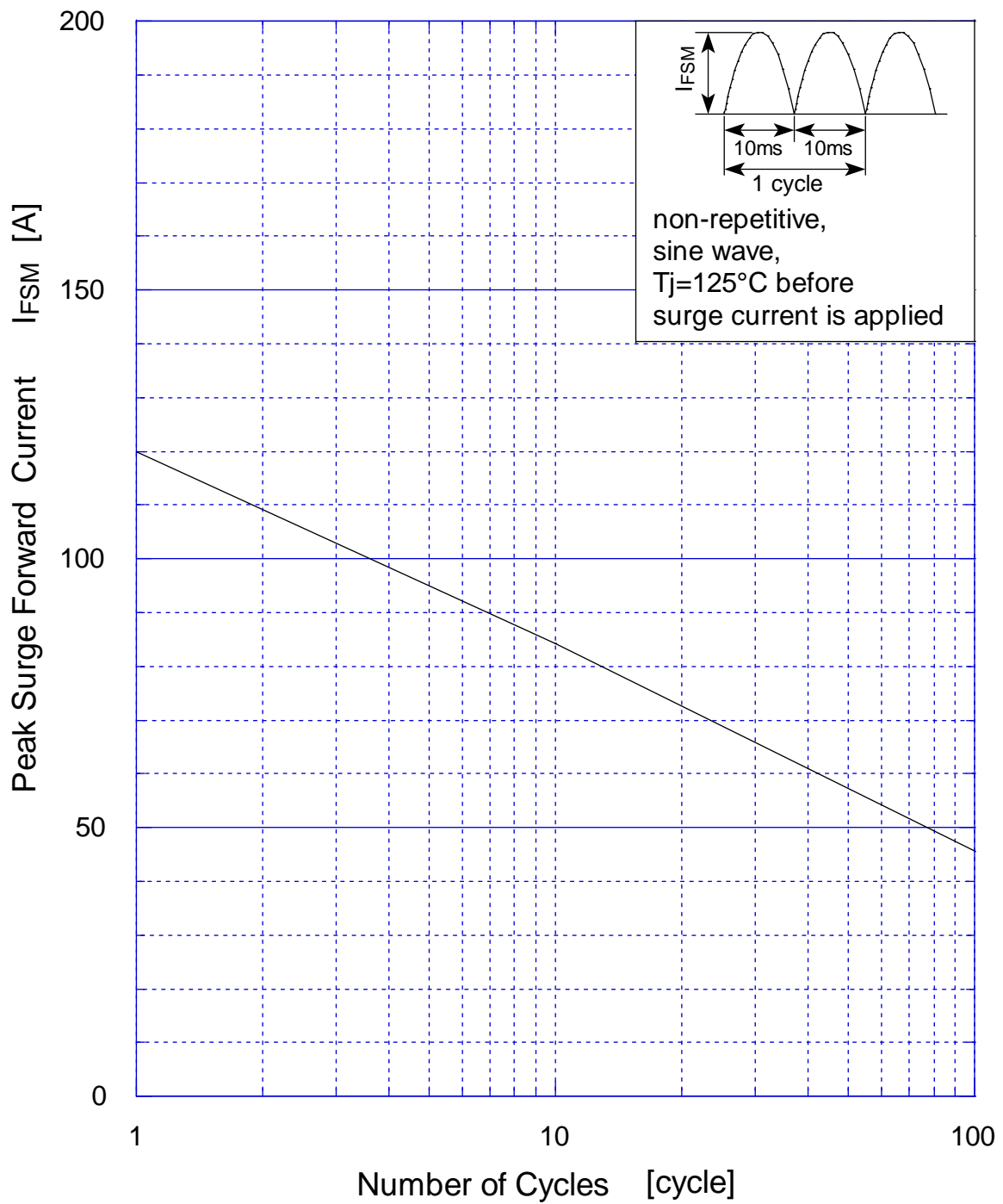
D2SB80A Forward Power Dissipation



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

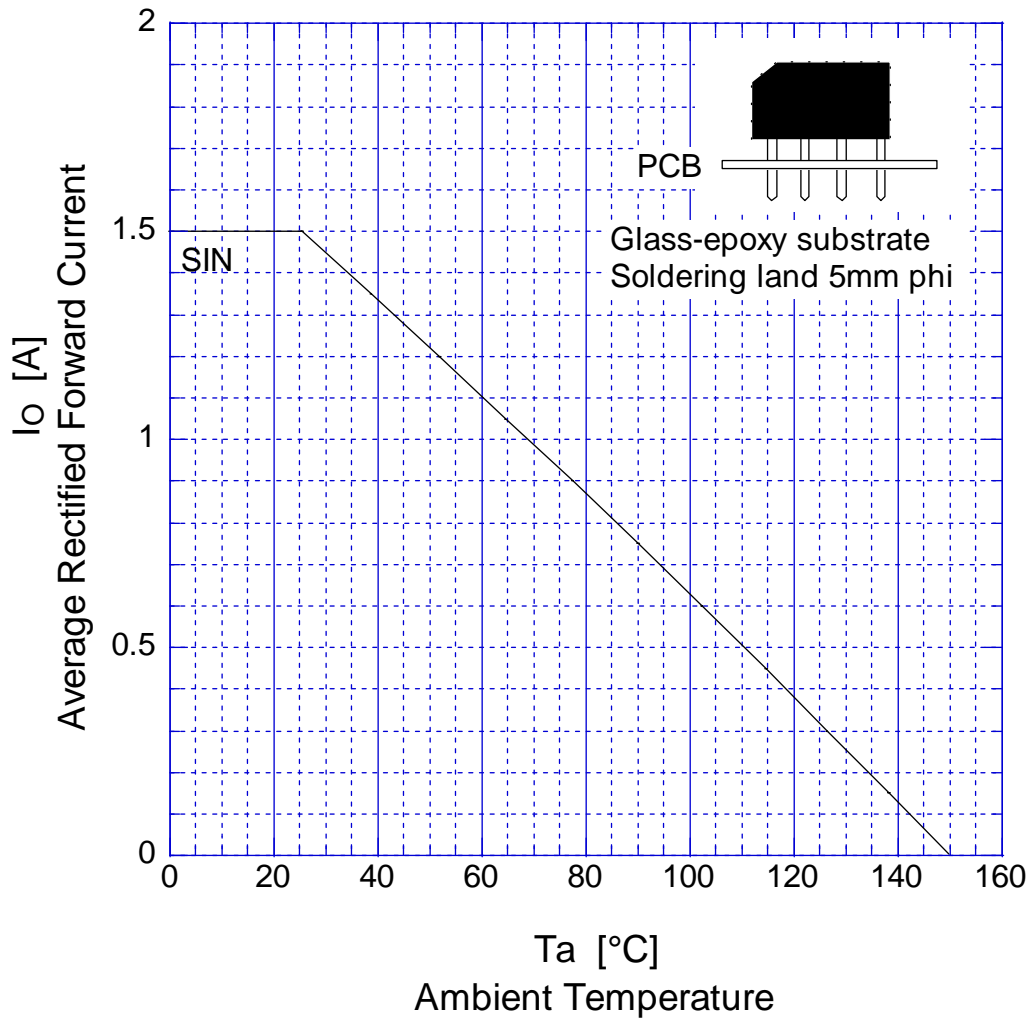
sine wave

D2SB80A Peak Surge Forward Capability



D2SB80A

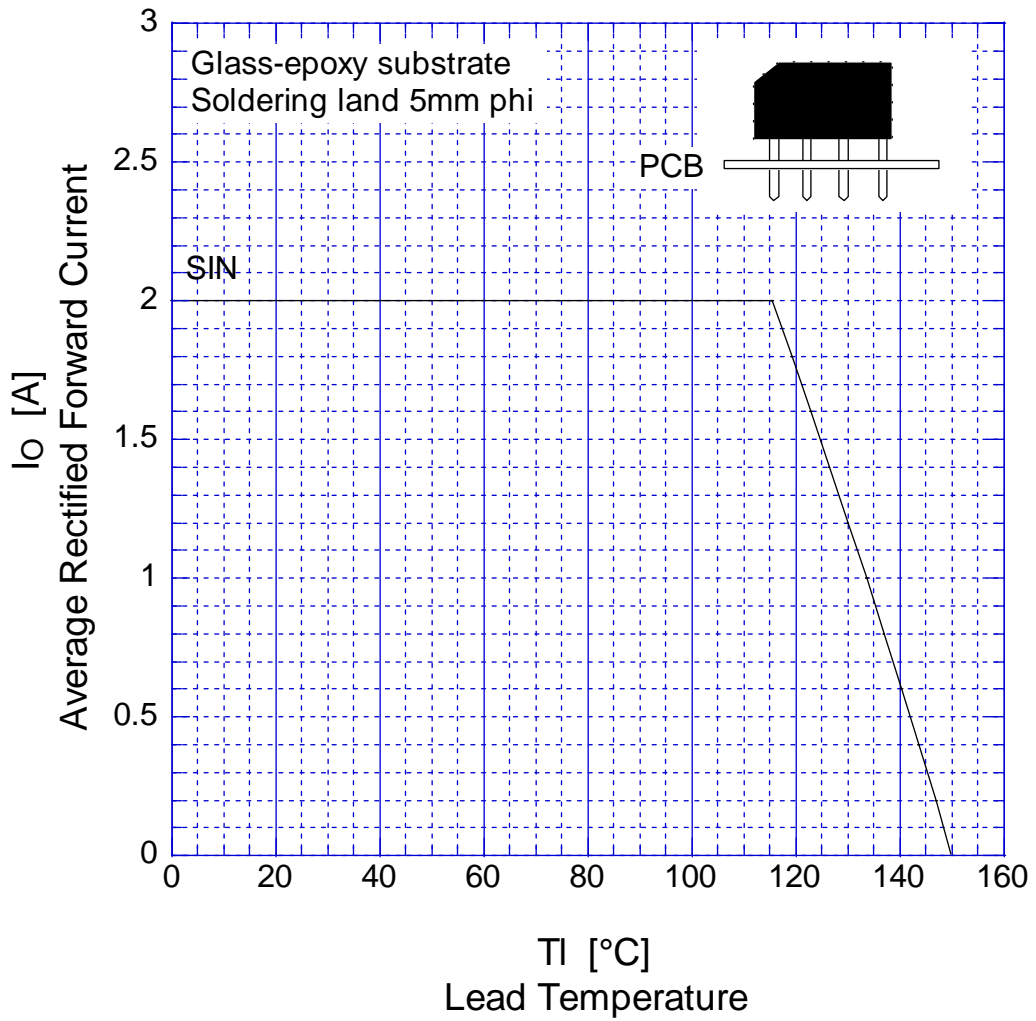
Derating Curve



sine wave
R - load
free in air

D2SB80A

Derating Curve



sine wave
R - load
free in air