

SHINDENGEN

General Purpose Rectifiers

SIL Bridges

D3SB80

800V 4A

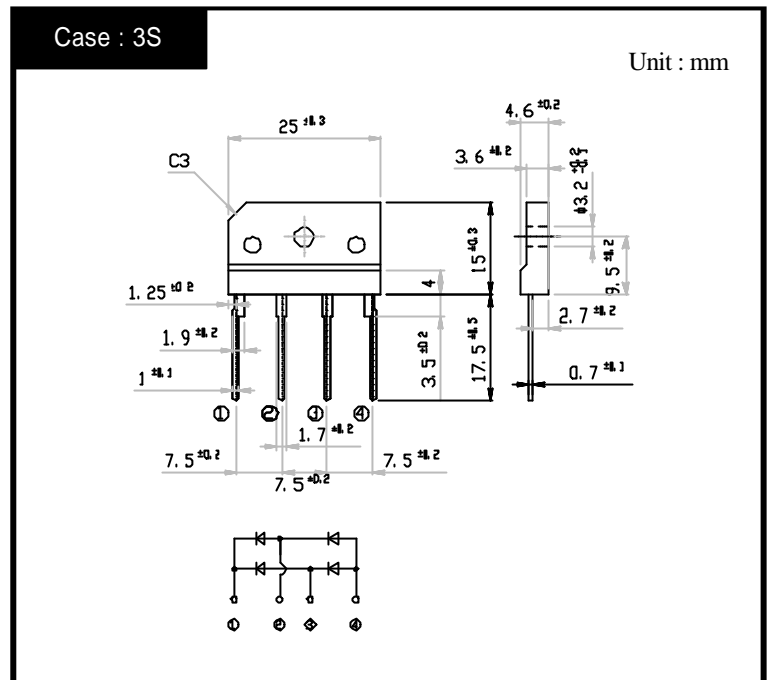
FEATURES

- Thin Single In-Line Package
- 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 Tc=25)

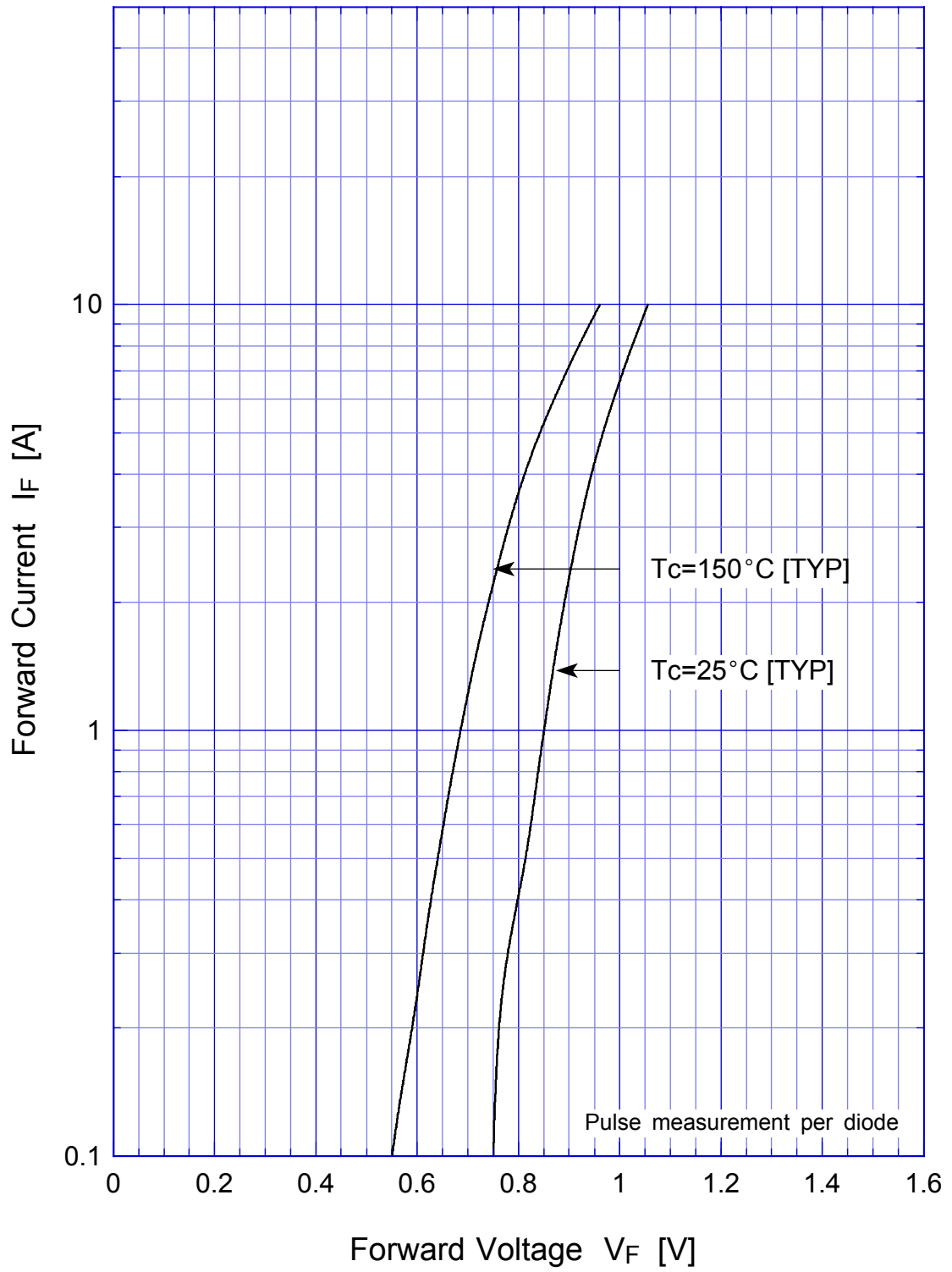
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		800	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=108	4	A
		50Hz sine wave, R-load Without heatsink Ta=25	2.3	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	120	A
Current Squared Time	I ² t	1ms t < 10ms Tj=25	60	A ² s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

Electrical Characteristics (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	j-c	junction to case With heatsink	Max.5.5	/W
	j-l	junction to lead Without heatsink	Max.6	
	j-a	junction to ambient Without heatsink	Max.30	

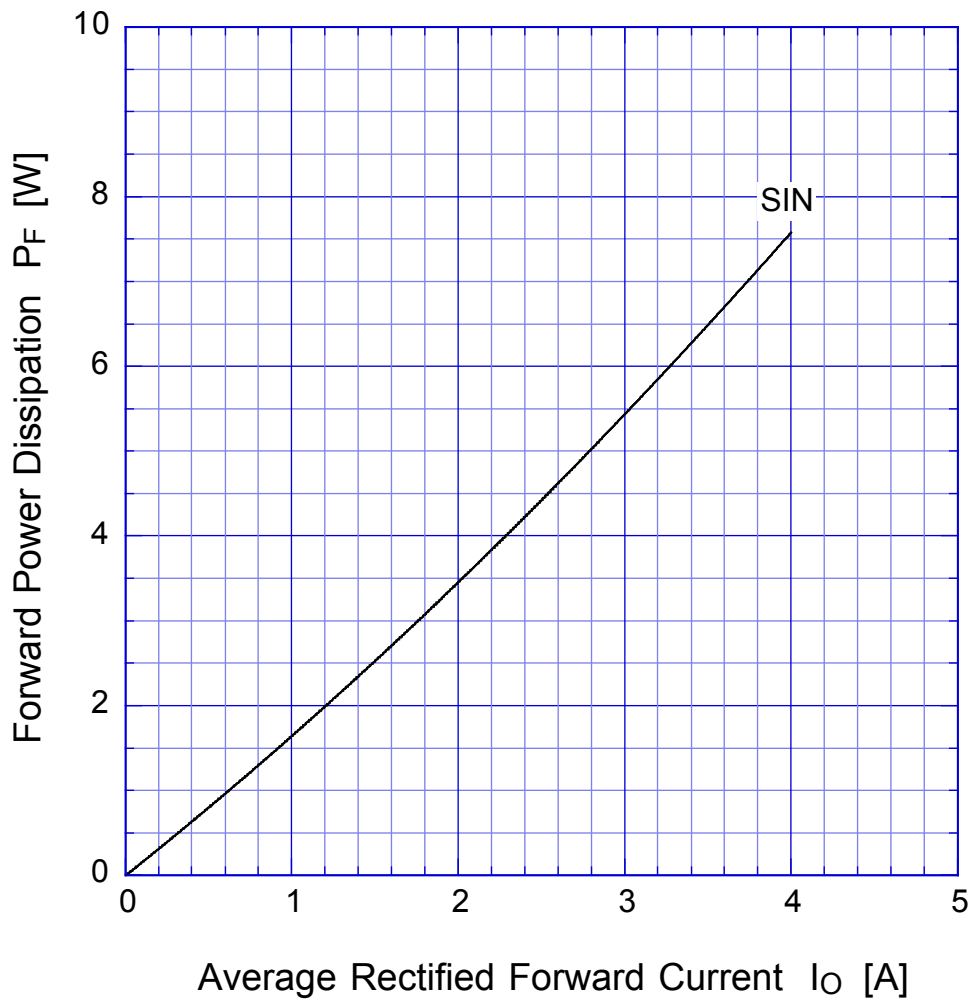
D3SBx

Forward Voltage



D3SBx

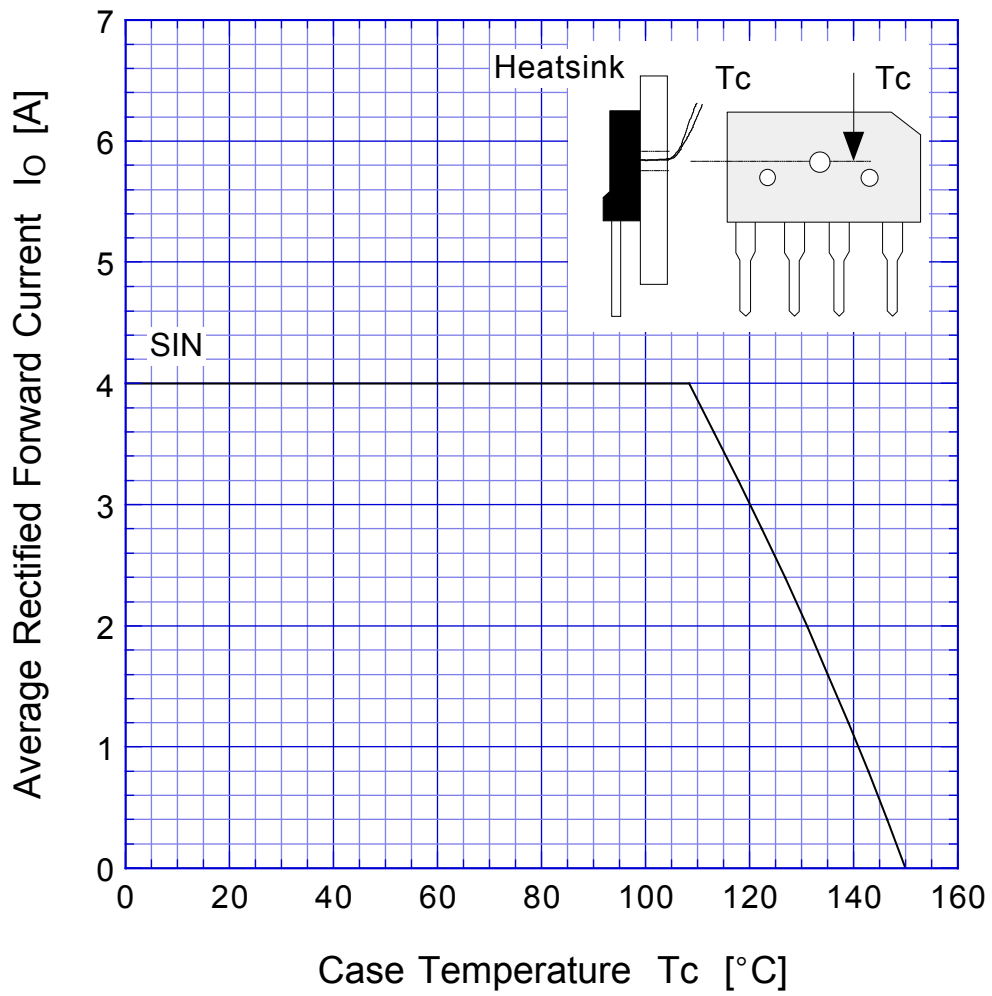
Forward Power Dissipation



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

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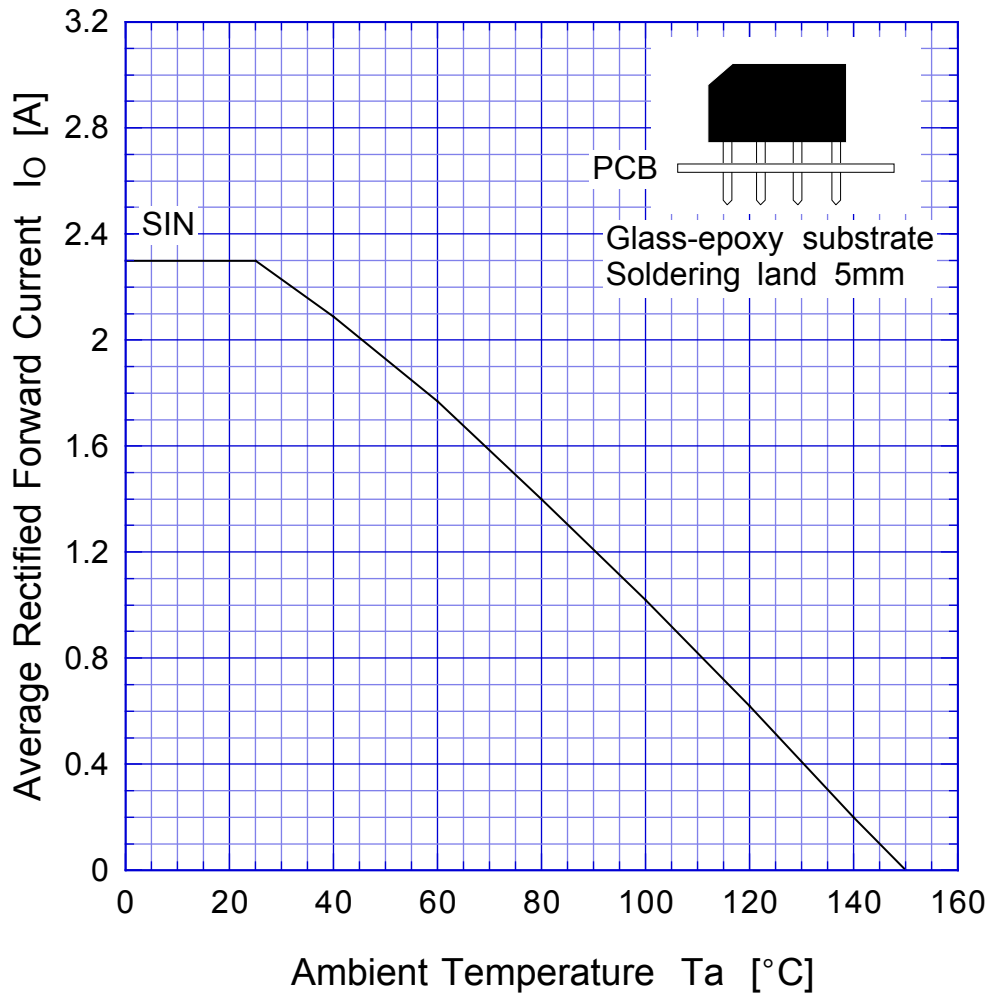
Derating Curve



Sine wave
R-load
with heatsink

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Derating Curve



Sine wave
R-load
Free in air

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Peak Surge Forward Capability

