

SHINDENGEN

Bridge Diode

Square In-line Package

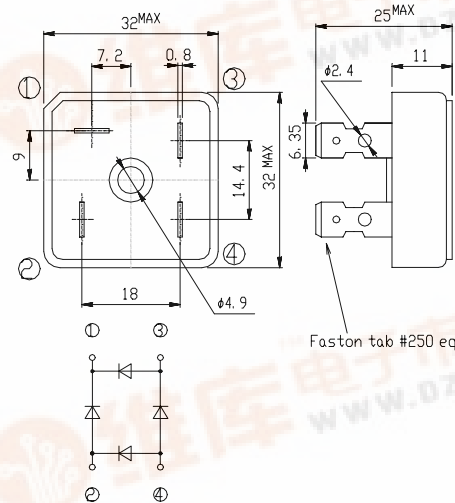
S25VB20

200V 25A

OUTLINE DIMENSIONS

Case : S25VB

Unit : mm



RATINGS

Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink, Tc=85°C	25	A
		50Hz sine wave, R-load Without heatsink, Ta=40°C	6	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	400	A
Current Squared Time	I ² t	1ms ≤ t < 10ms Tc=25°C	800	A ² s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 1N·m)	2	N·m

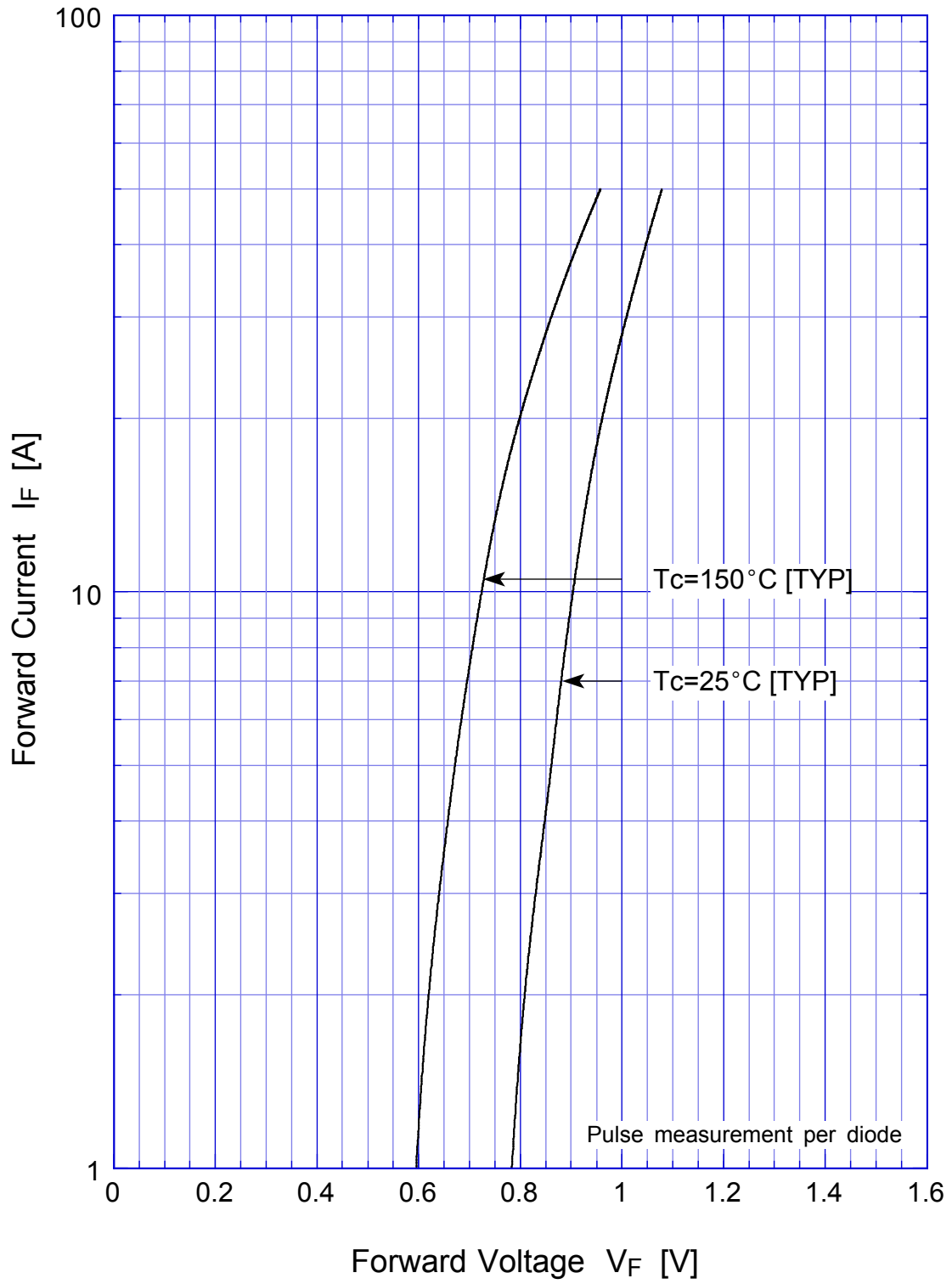
Electrical Characteristics (Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	IF=12.5A, 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	θ _{jc}	junction to case	Max.1.5	°C/W

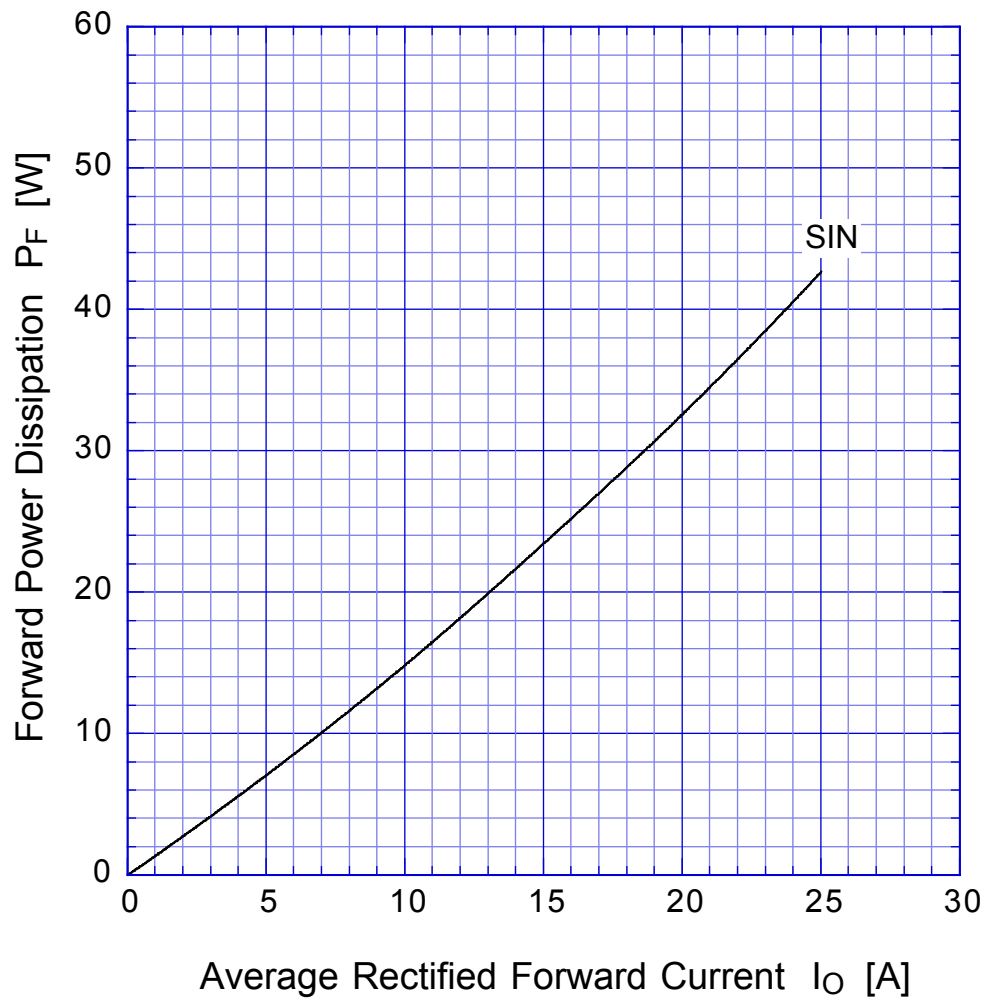


S25VBx

Forward Voltage



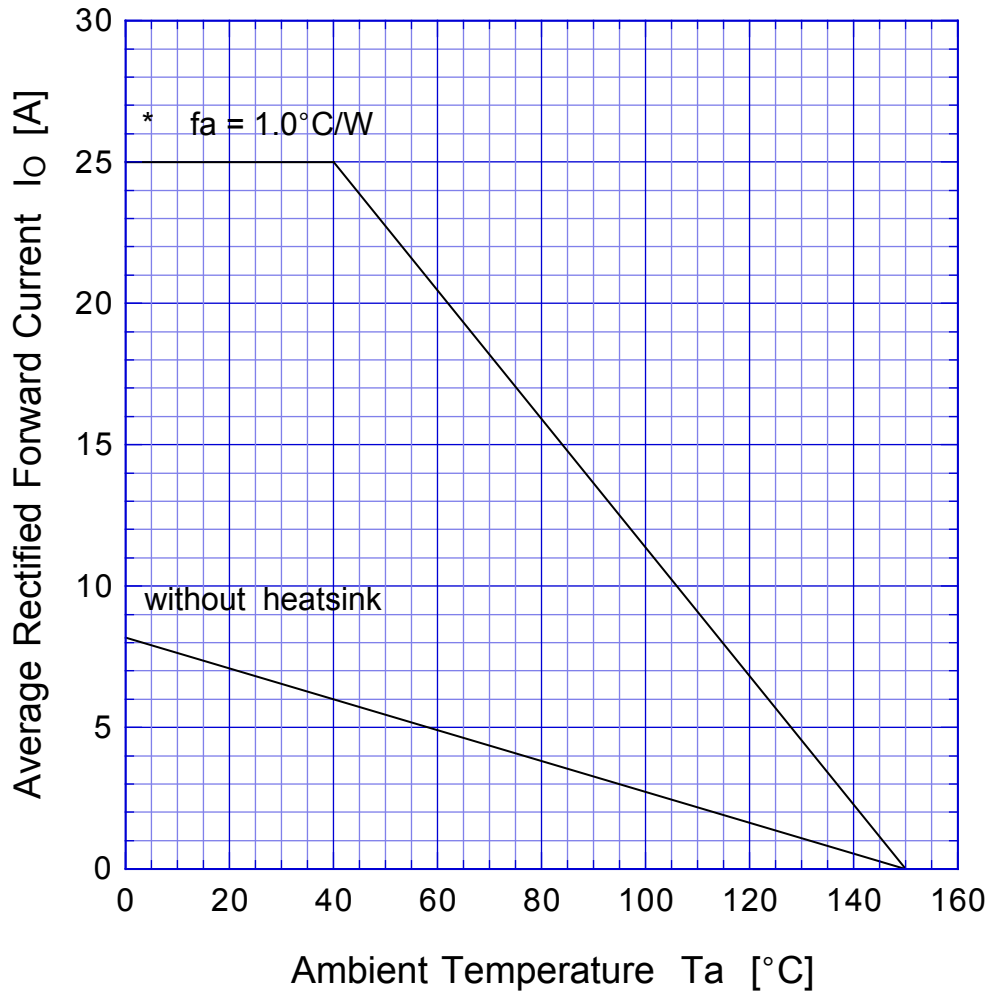
S25VBx Forward Power Dissipation



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

S25VBx

Derating Curve



Sine wave

R-load

Free in air

* with thermal compound, TOR=10kg-cm

S25VBx

Peak Surge Forward Capability

