SHINDENGEN

General Purpose Rectifiers

SIL Bridges

D10XB60

600V 10A

FEATURES

- Thin Single In-Line Package
- High current capacity with Small Package
- High IFSM
- Superior Thermal Conductivity

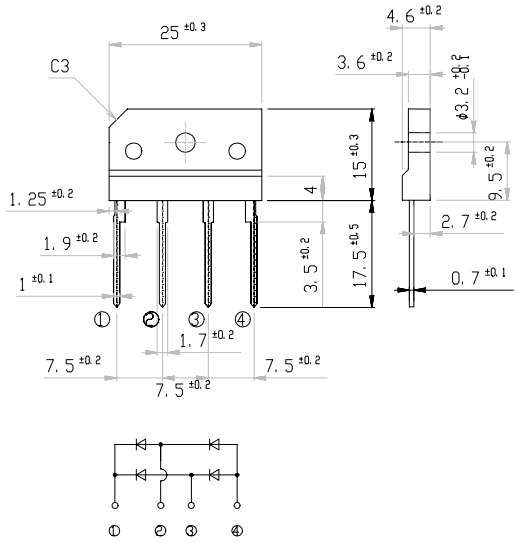
APPLICATION

- Switching power supply
- Home Appliances, Office Equipment
- Factory Automation, Inverter

■ OUTLINE DIMENSIONS

Case : 3S

Unit : mm



RATINGS

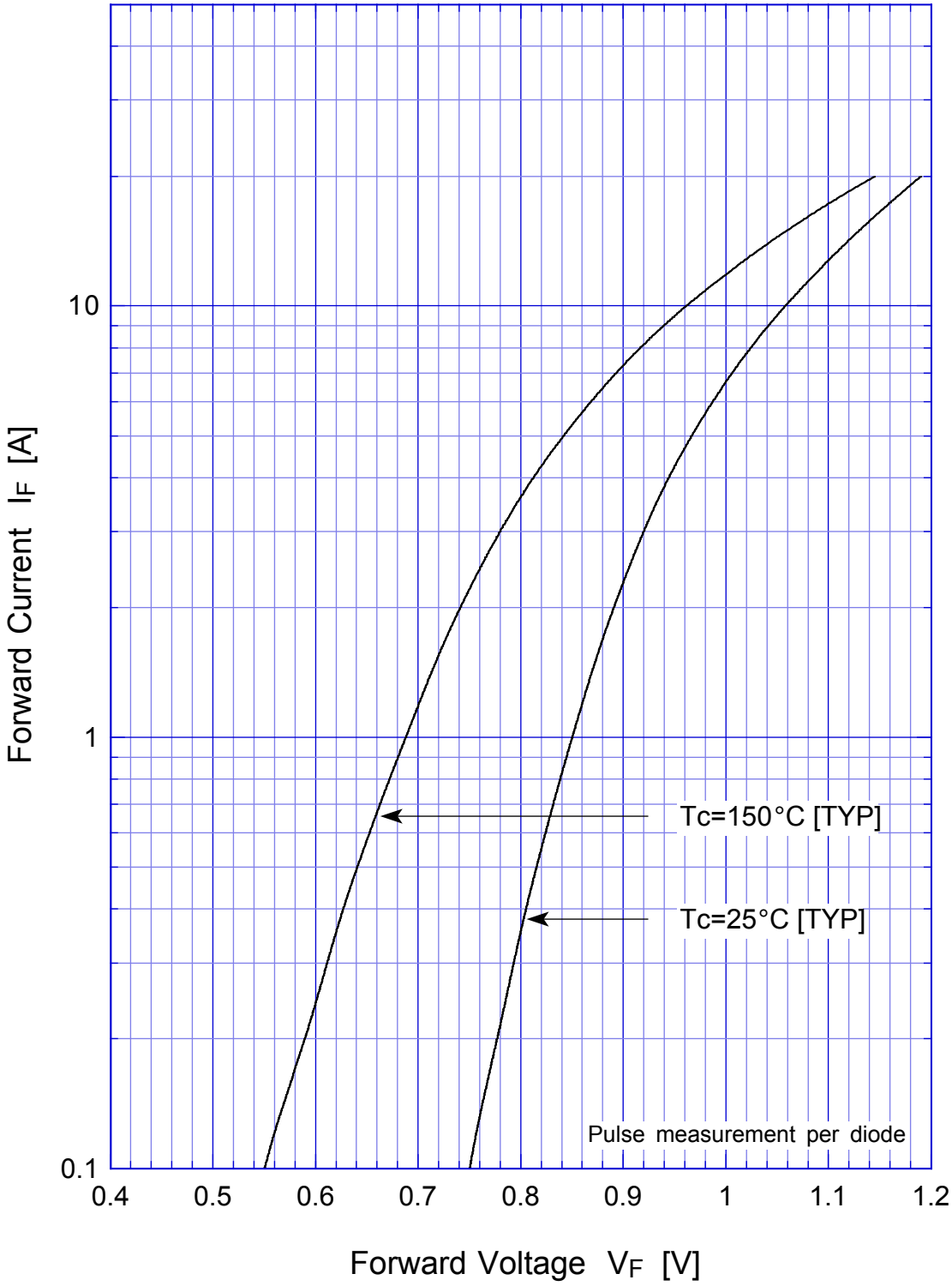
●Absolute Maximum Ratings (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load With heatsink Tc=100℃	10	A
		50Hz sine wave, R-load Without heatsink Ta=25℃	2.7	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25℃	120	A
Current Squared Time	I^2t	1ms≦t＜10ms Tj=25℃	60	A^2s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting Torque	TOR	(Recommended torque:0.5N･m)	0.8	N･m

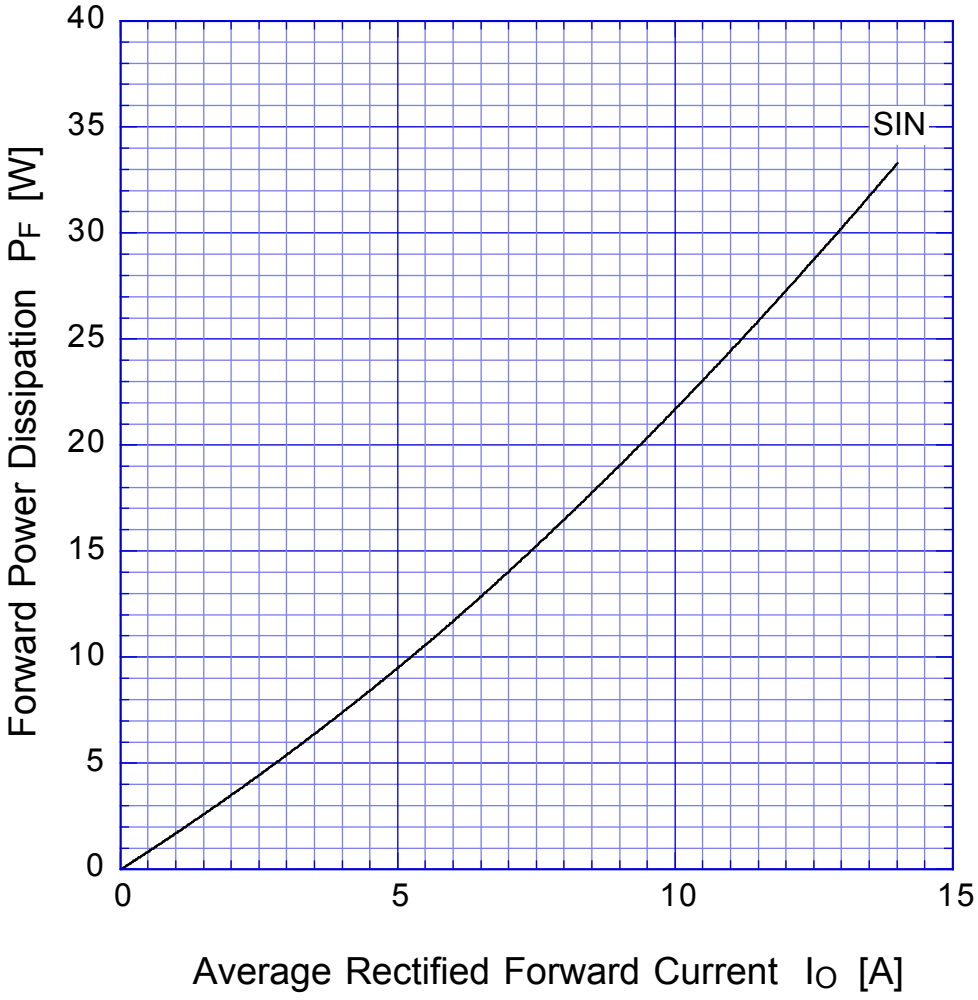
●Electrical Characteristics (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=5A, Pulse measurement, Rating of per diode	Max.1.1	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 With heatsink	Max.2.3	℃/W
	θ jl	junction to lead Without heatsink	Max.6	
	θ ja	junction to ambient Without heatsink	Max.26	

D10XBx Forward Voltage

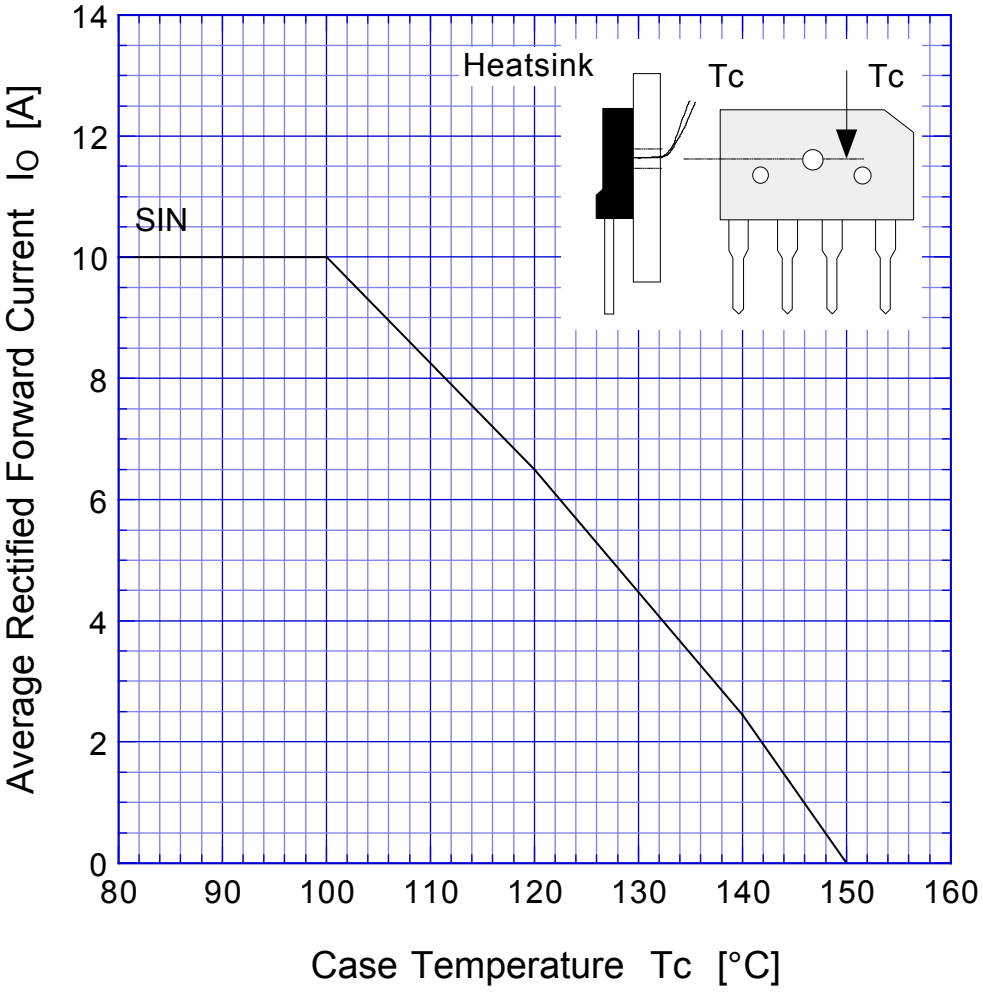


D10XBx Forward Power Dissipation



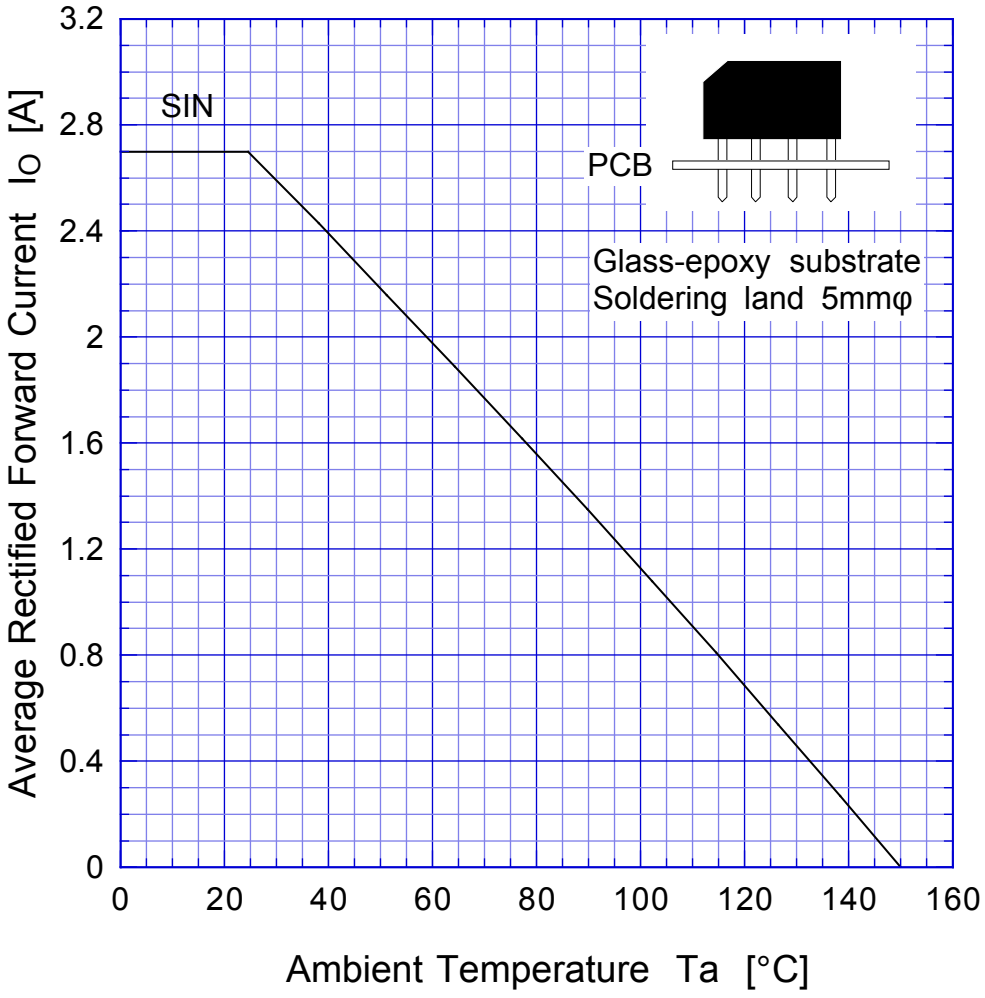
Tj = 150°C
Sine wave

D10XBx Derating Curve



Sine wave
R-load
with heatsink

D10XBx Derating Curve



Sine wave
R-load
Free in air

D10XBx Peak Surge Forward Capability