

D10XB20

200V 10A

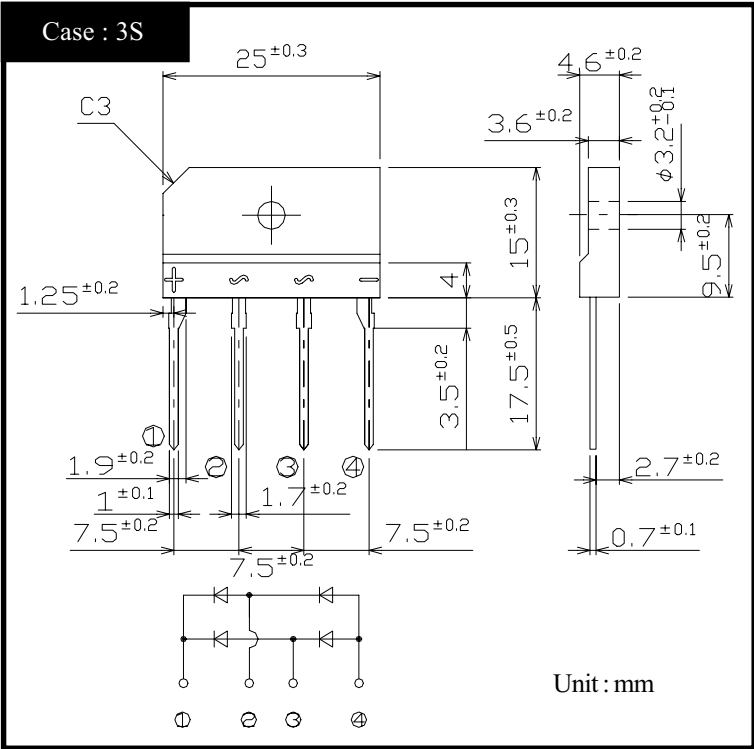
FEATURES

- 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



RATINGS

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

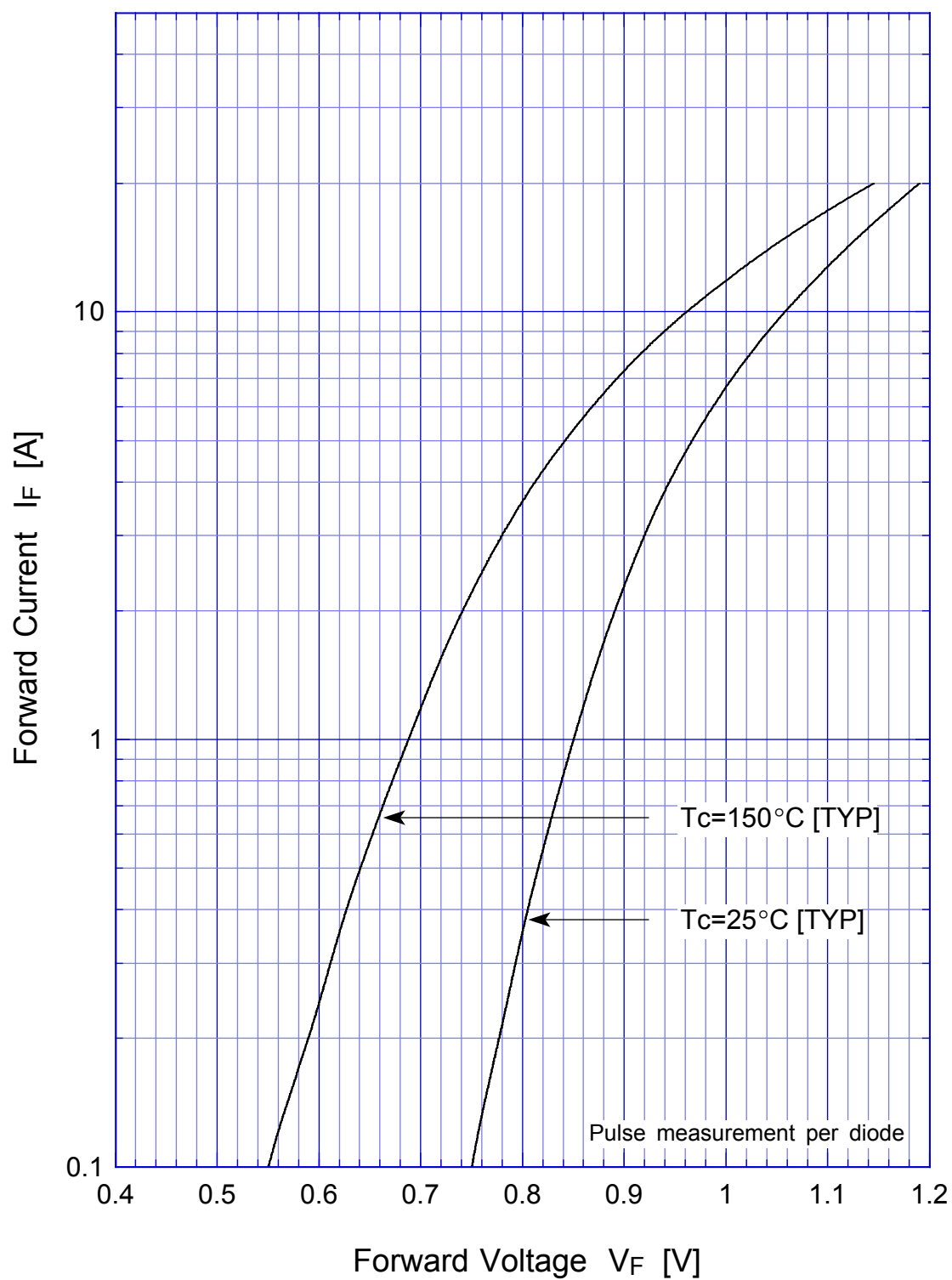
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		200	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load With heatsink Tc=100°C	10	A
		50Hz sine wave, R-load Without heatsink Ta=25°C	2.7	
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	120	A
Current Squared Time	I²t	1ms≤t<10ms Tj=25°C	60	A²s
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°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=5A, Pulse measurement, Rating of per diode	Max.1.1	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θjc	junction to case With heatsink	Max.2.3	°C/W
	θjl	junction to lead Without heatsink	Max.6	
	θja	junction to ambient Without heatsink	Max.26	

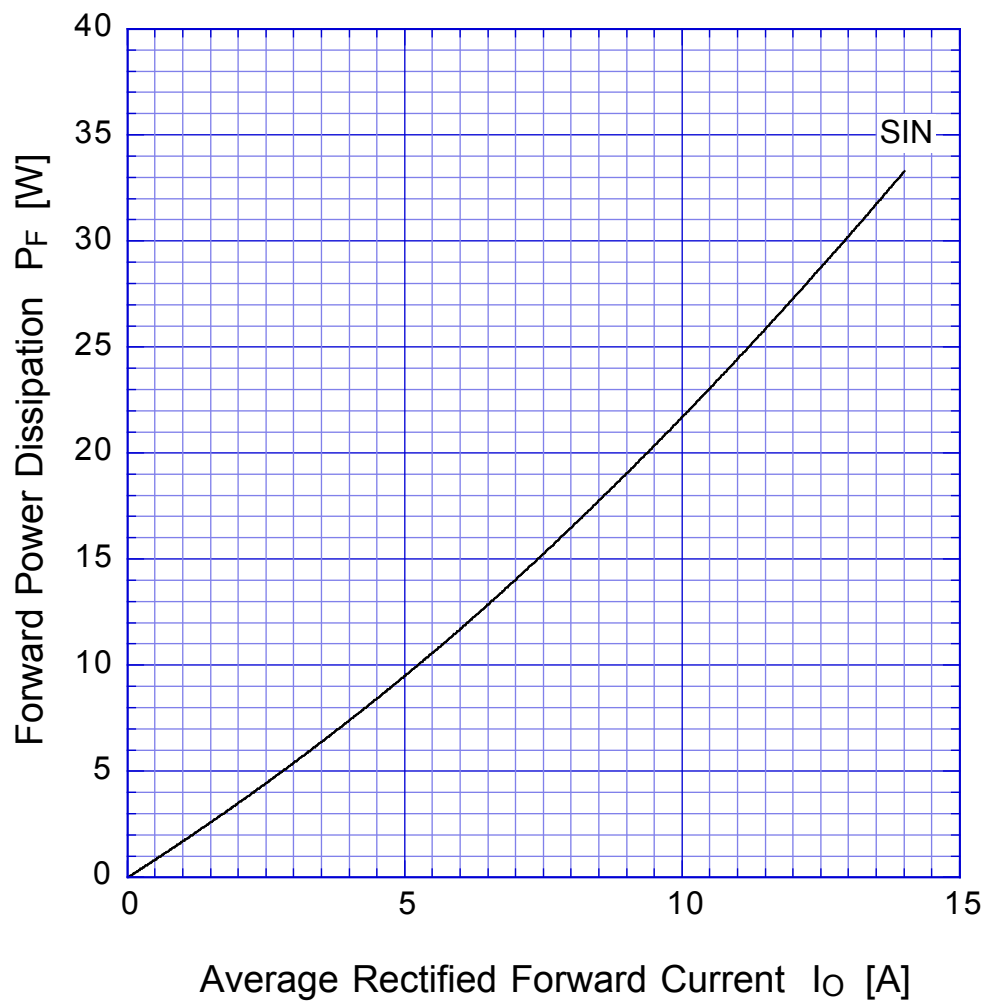
D10XBx

Forward Voltage



D10XBx

Forward Power Dissipation

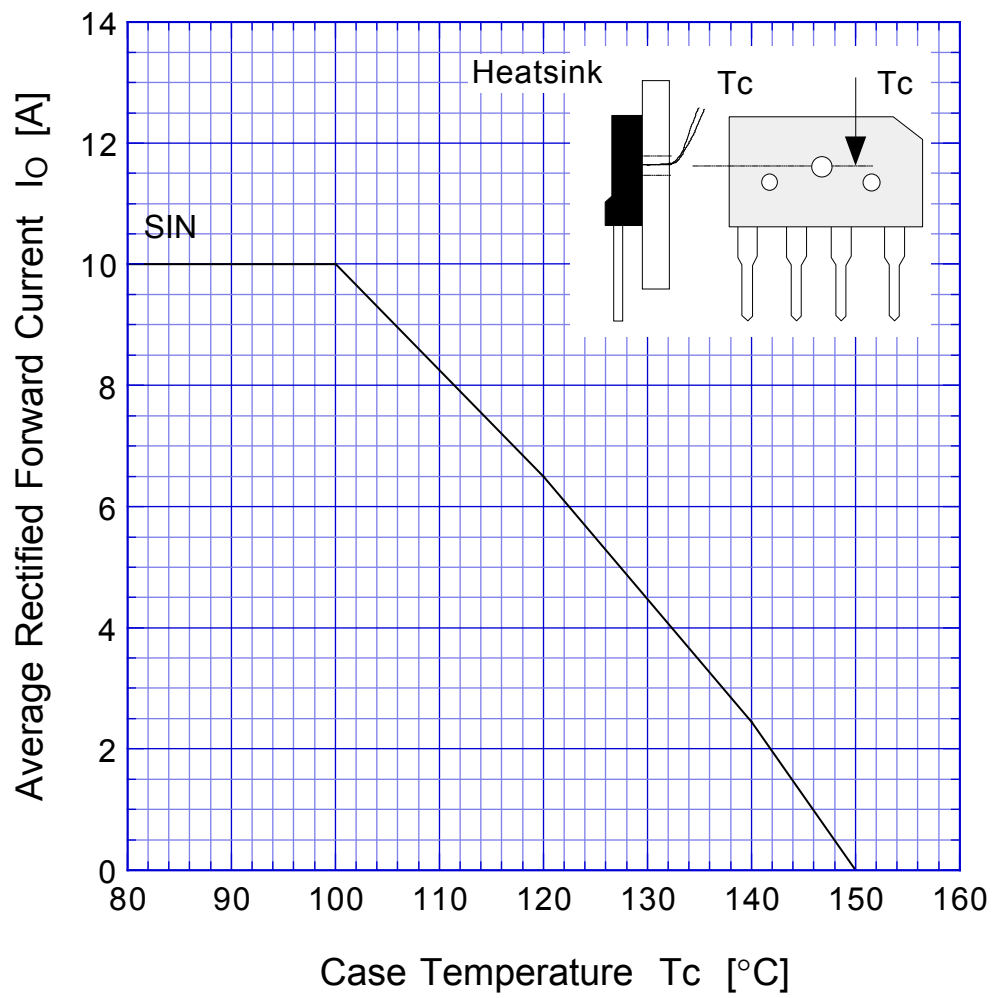


$T_j = 150^\circ\text{C}$

Sine wave

D10XBx

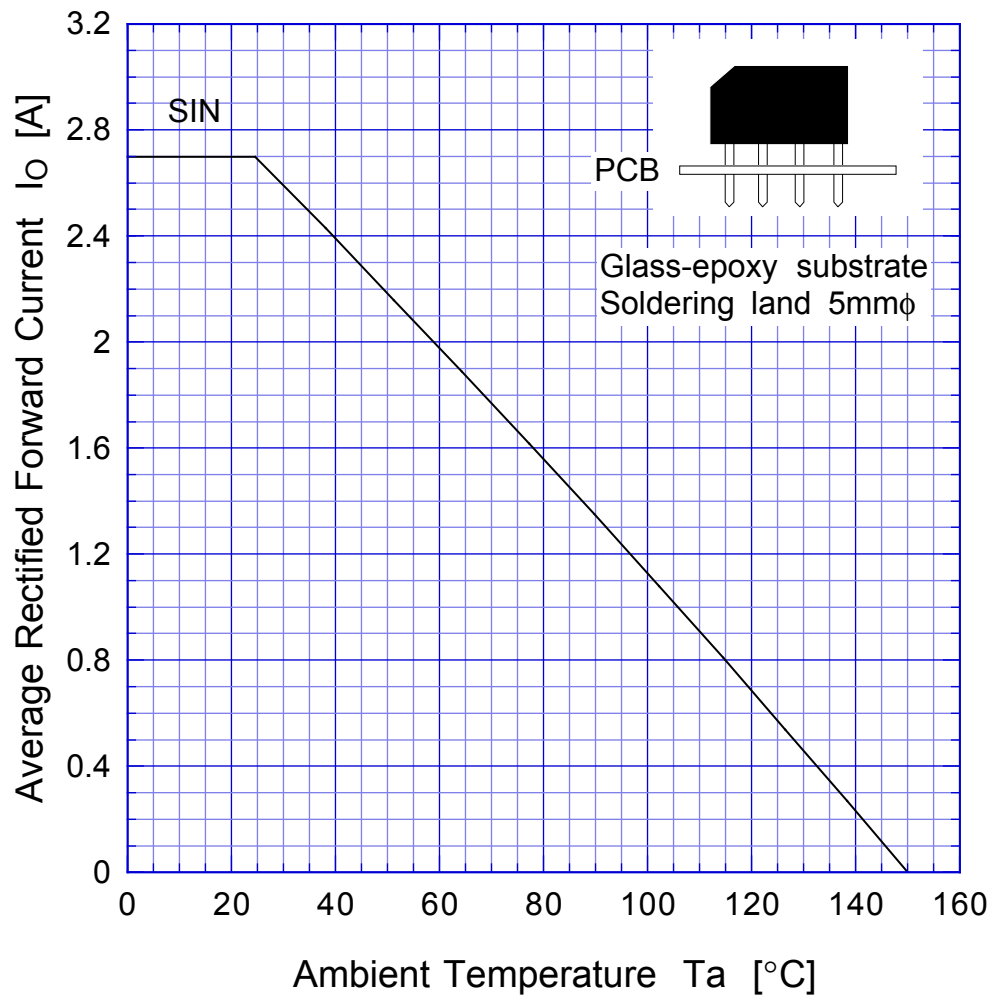
Derating Curve



Sine wave
R-load
with heatsink

D10XBx

Derating Curve



D10XBx

Peak Surge Forward Capability

