

D10XB20

200V 10A

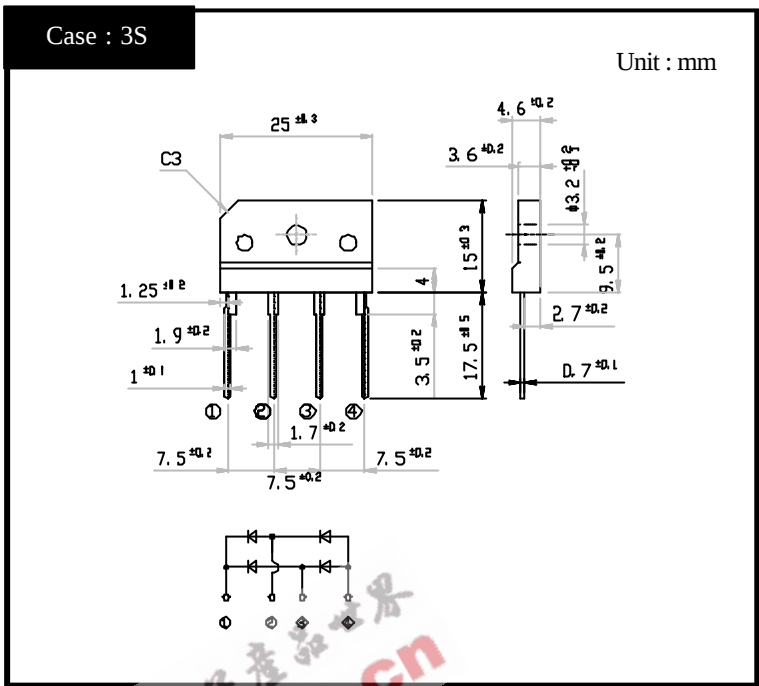
FEATURES

- 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

OUTLINEDIMENSIONS



RATINGS

• Absolute Maximum Ratings (If not specified Tc=25)

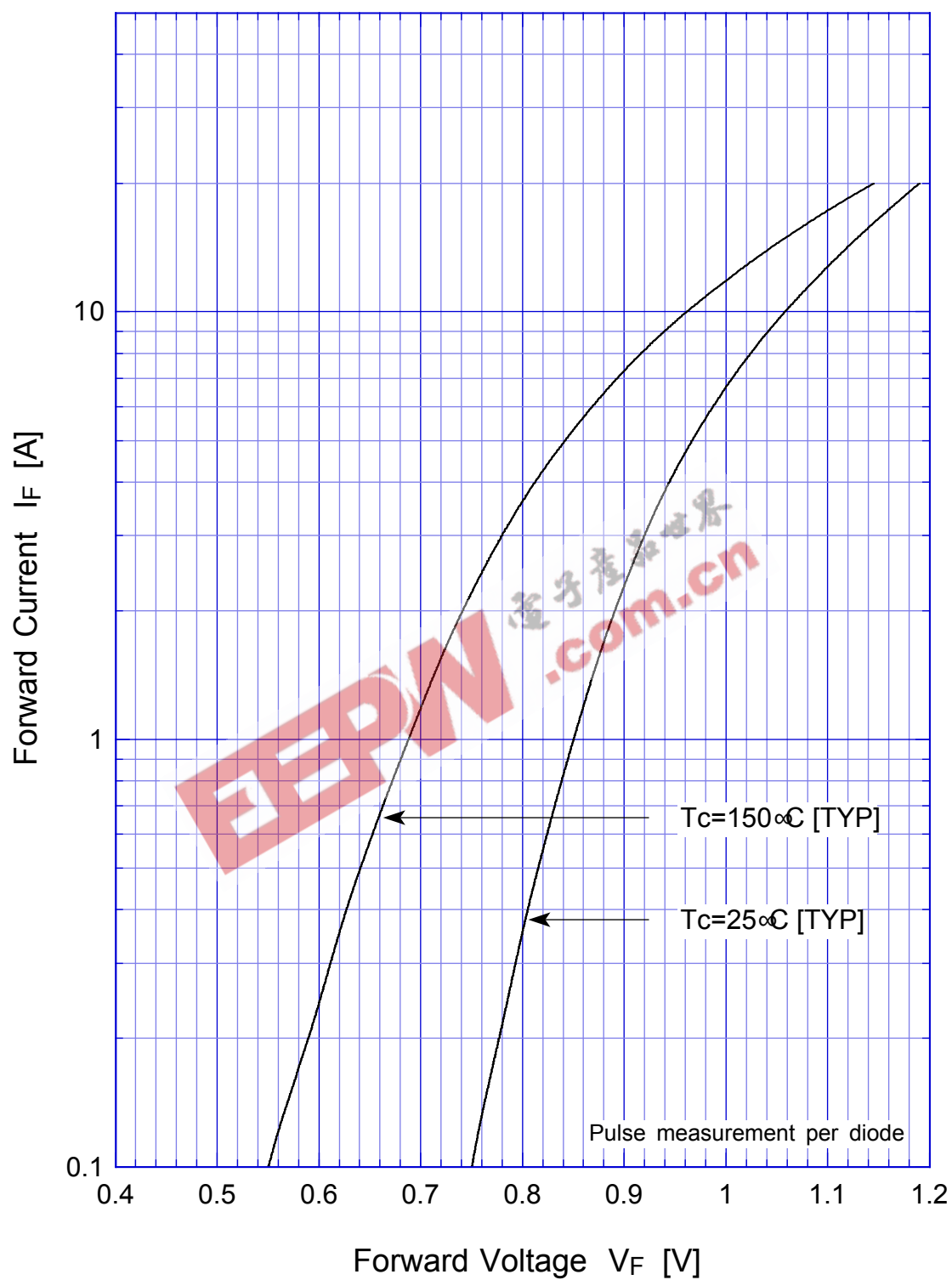
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	VRM		200	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load With heatsink Tc=100	10	A
		50Hz sine wave, R-load Without heatsink Ta=25	2.7	
Peak Surge Forward Current	IFSM	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	2.5	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	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	/W
	θjl	junction to lead Without heatsink	Max.6	
	θja	junction to ambient Without heatsink	Max.26	

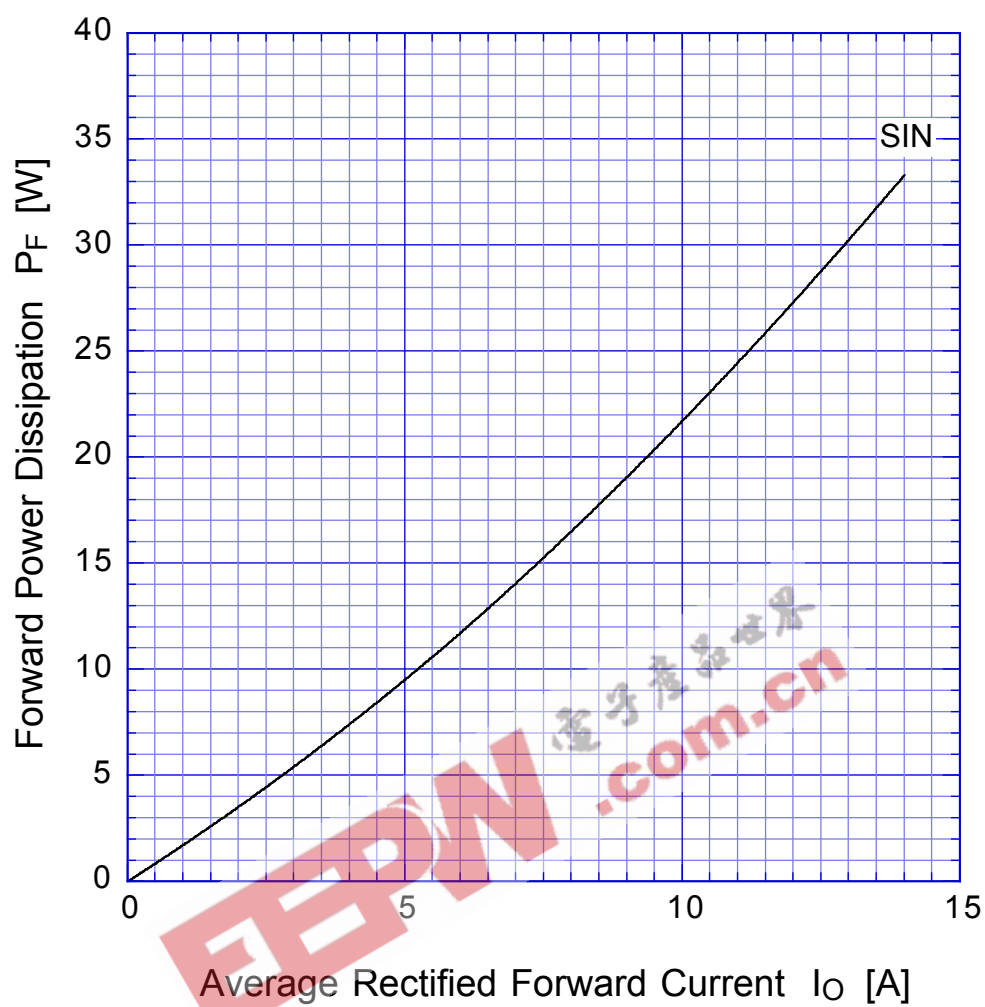
D10XBx

Forward Voltage



D10XBx

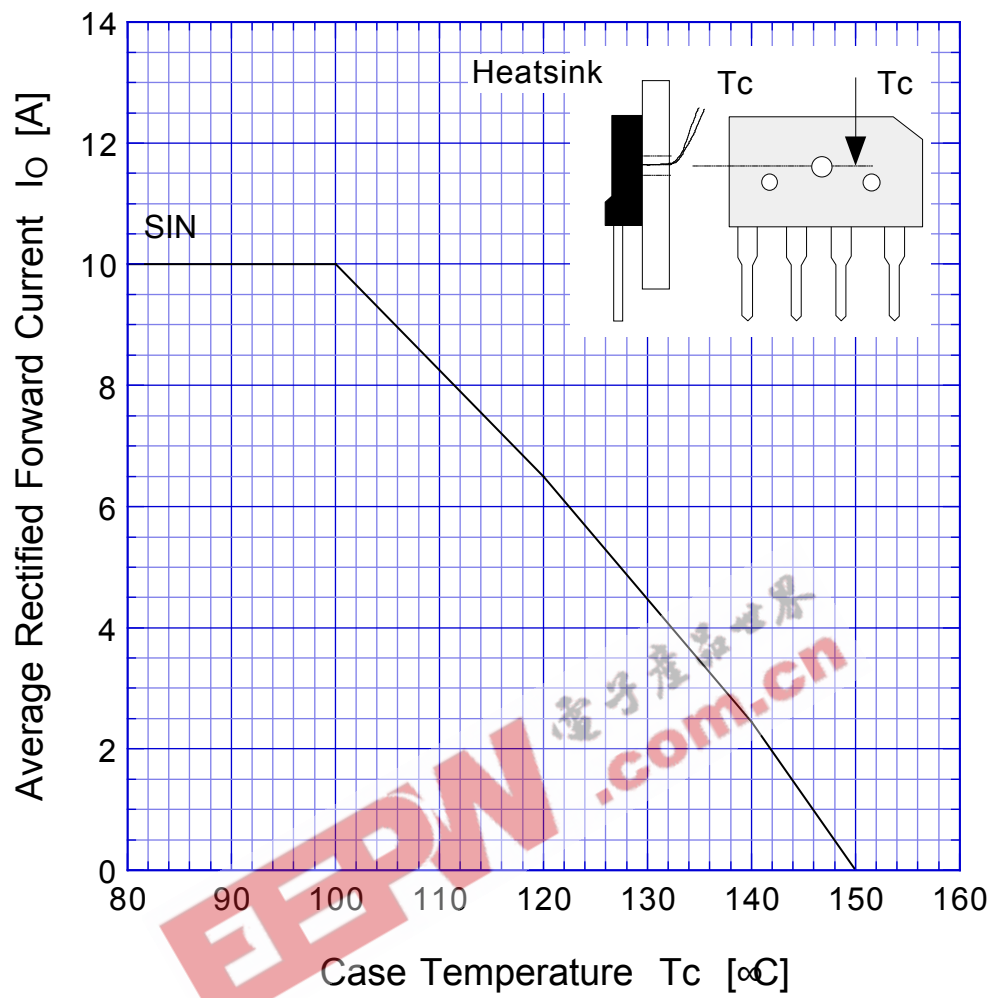
Forward Power Dissipation



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

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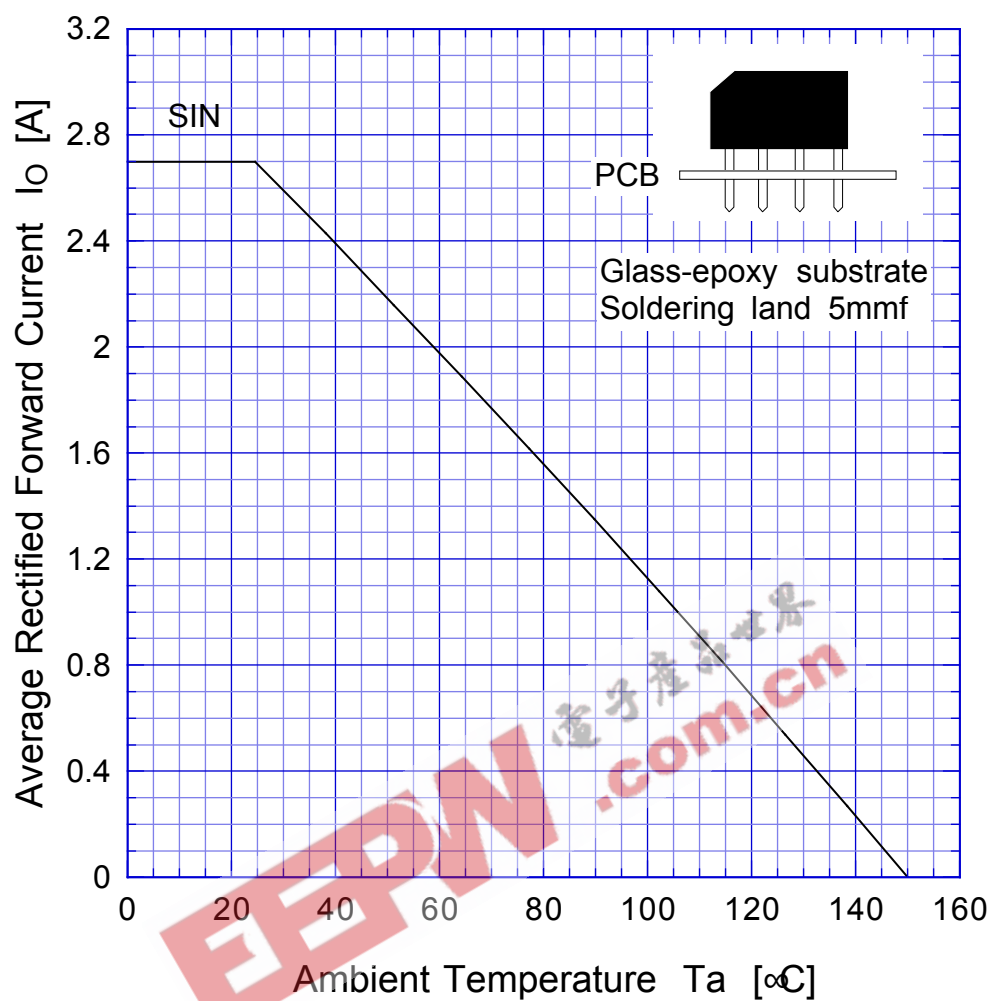
Derating Curve



Sine wave
R-load
with heatsink

D10XBx

Derating Curve



Sine wave
R-load
Free in air

D10XBx

Peak Surge Forward Capability

