EVVOSEMI®

THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

Domestic Part Number	D15XB80
Overseas Part Number	D15XB80
Equivalent Part Number	D15XB80

General Purpose Rectifiers

D15XB80

800V 15A

FEATURES

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

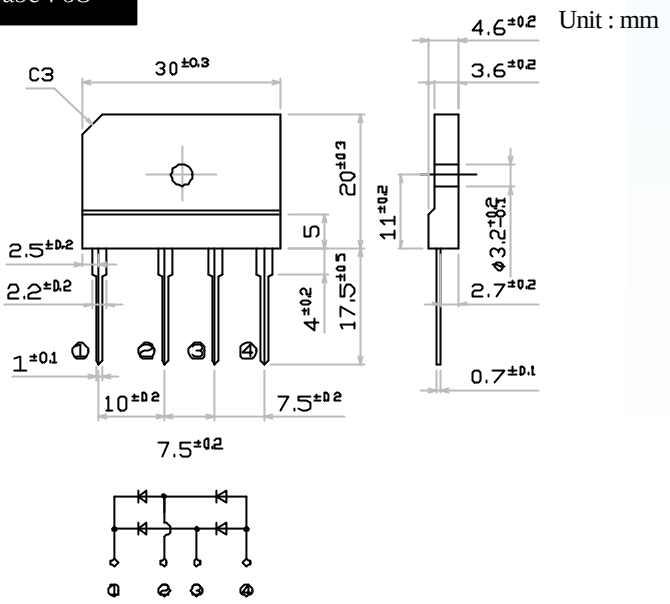
APPLICATION

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

OUTLINE DIMENSIONS

Case : 5S

Unit : mm



RATINGS

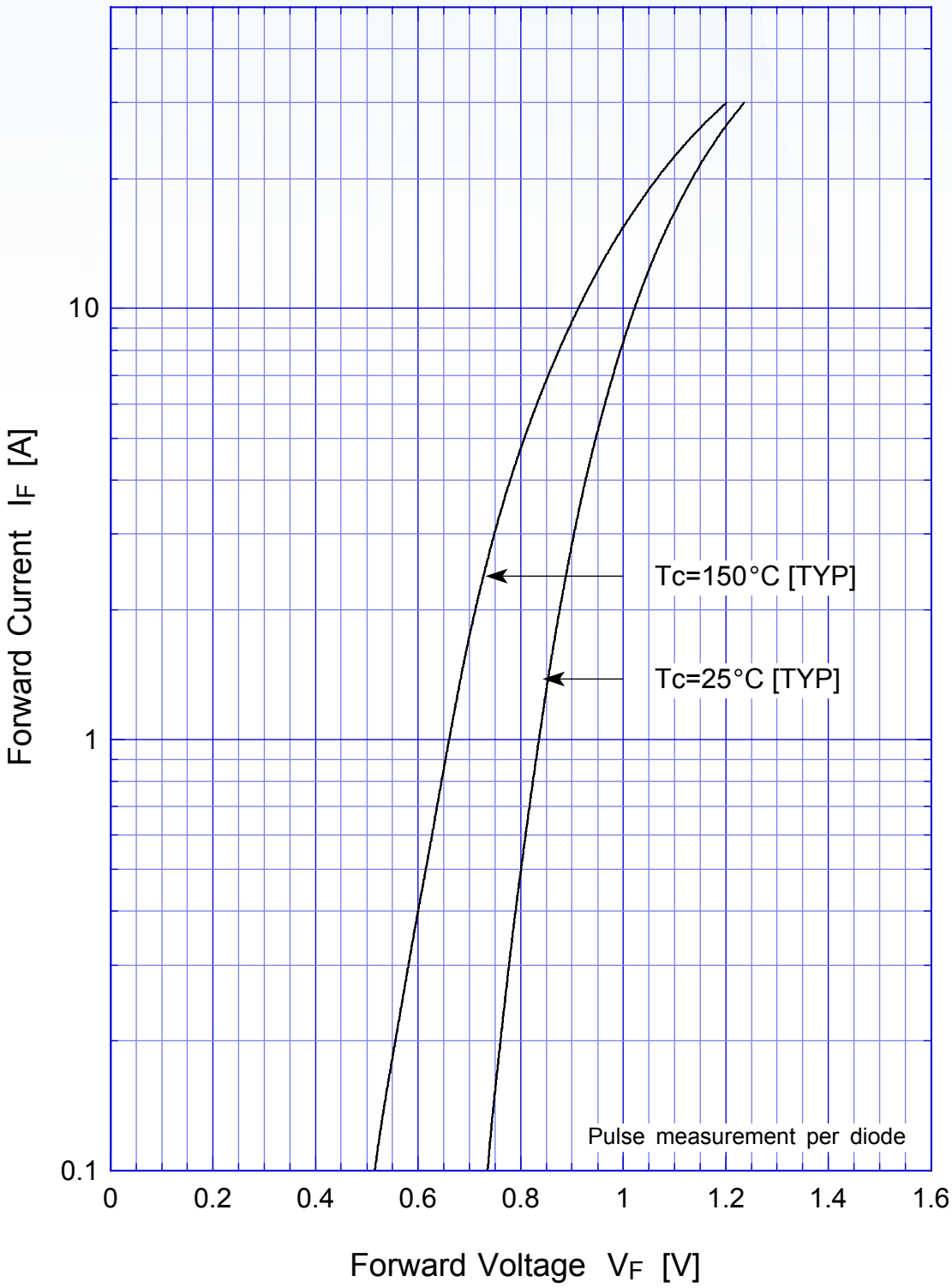
● Absolute Maximum Ratings (If not specified Tc=25°C)

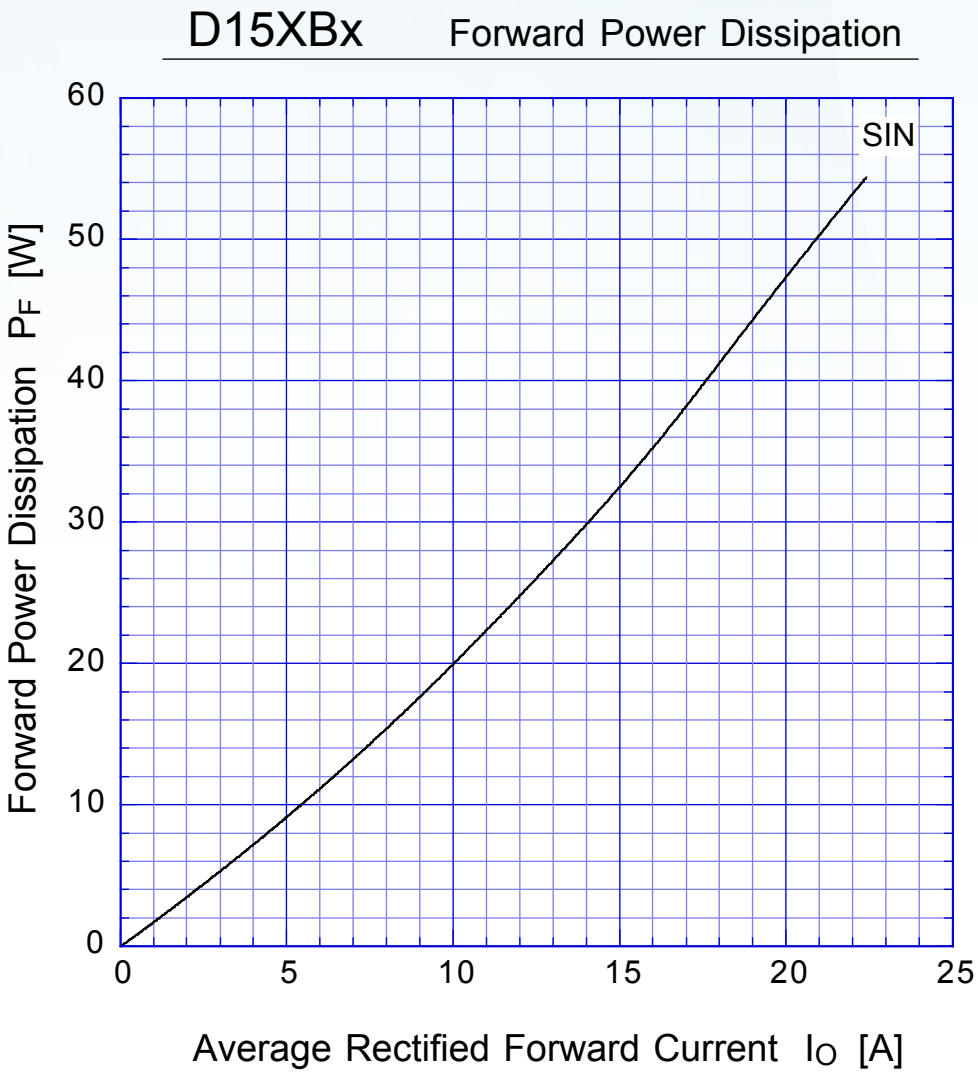
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V_{RM}		800	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load With heatsink Tc=100°C	15	A
		50Hz sine wave, R-load Without heatsink Ta=25°C	3.2	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	200	A
Current Squared Time	I^2t	1ms≦t＜10ms Tj=25°C	110	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°C)

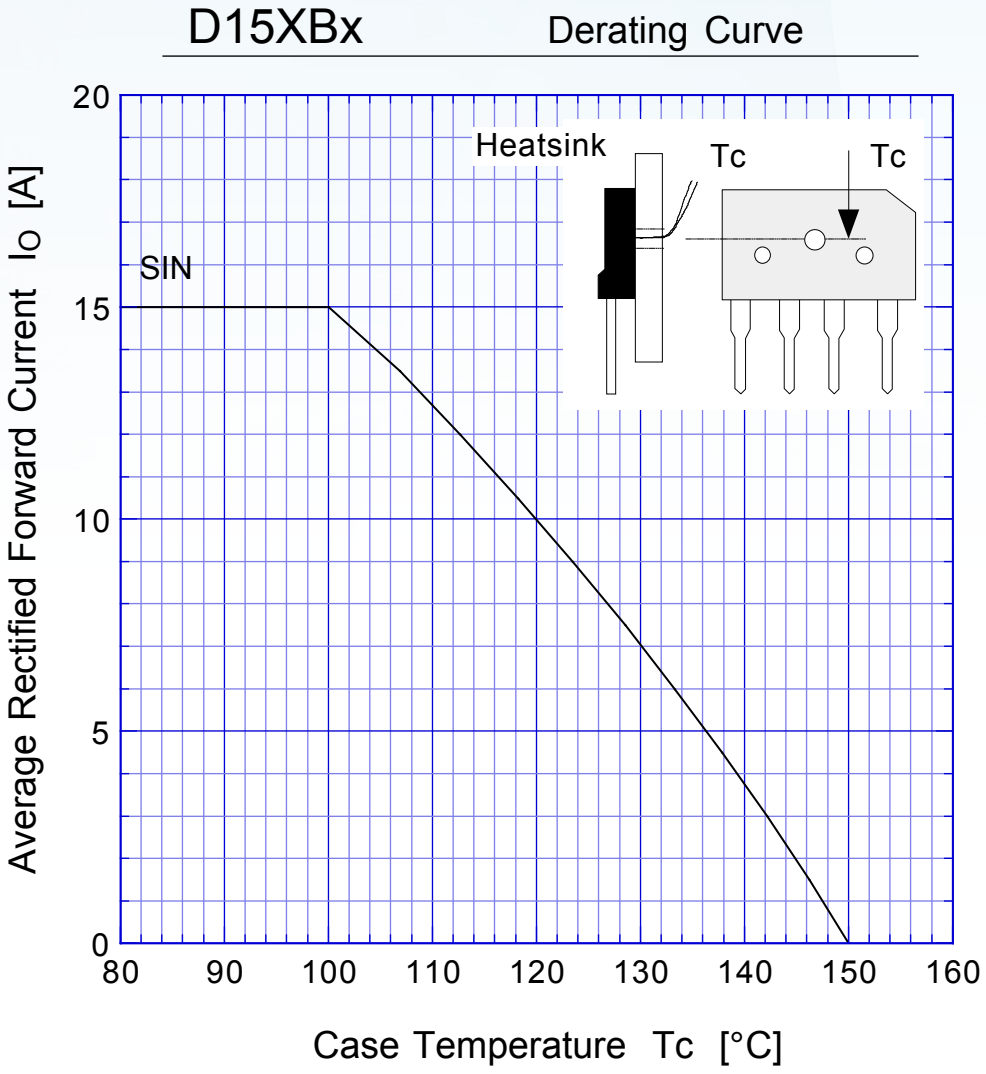
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=7.5A, Pulse measurement, Rating of per diode	Max.1.1	V
Reverse Current	I_R	V_R=V_{RM}, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θjc	junction to case With heatsink	Max.1.5	°C/W
	θjl	junction to lead Without heatsink	Max.5	
	θja	junction to ambient Without heatsink	Max.22	

D15XBx Forward Voltage

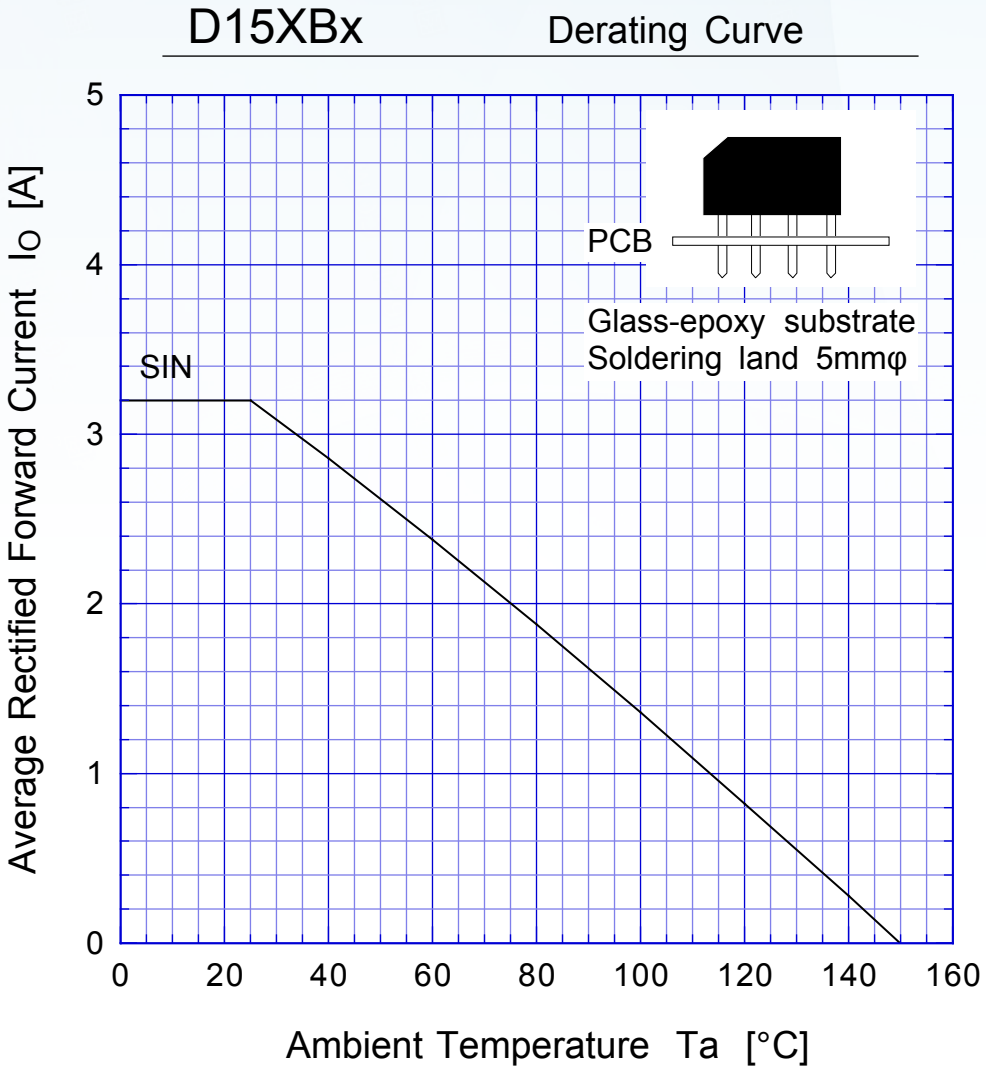




Tj = 150°C
Sine wave

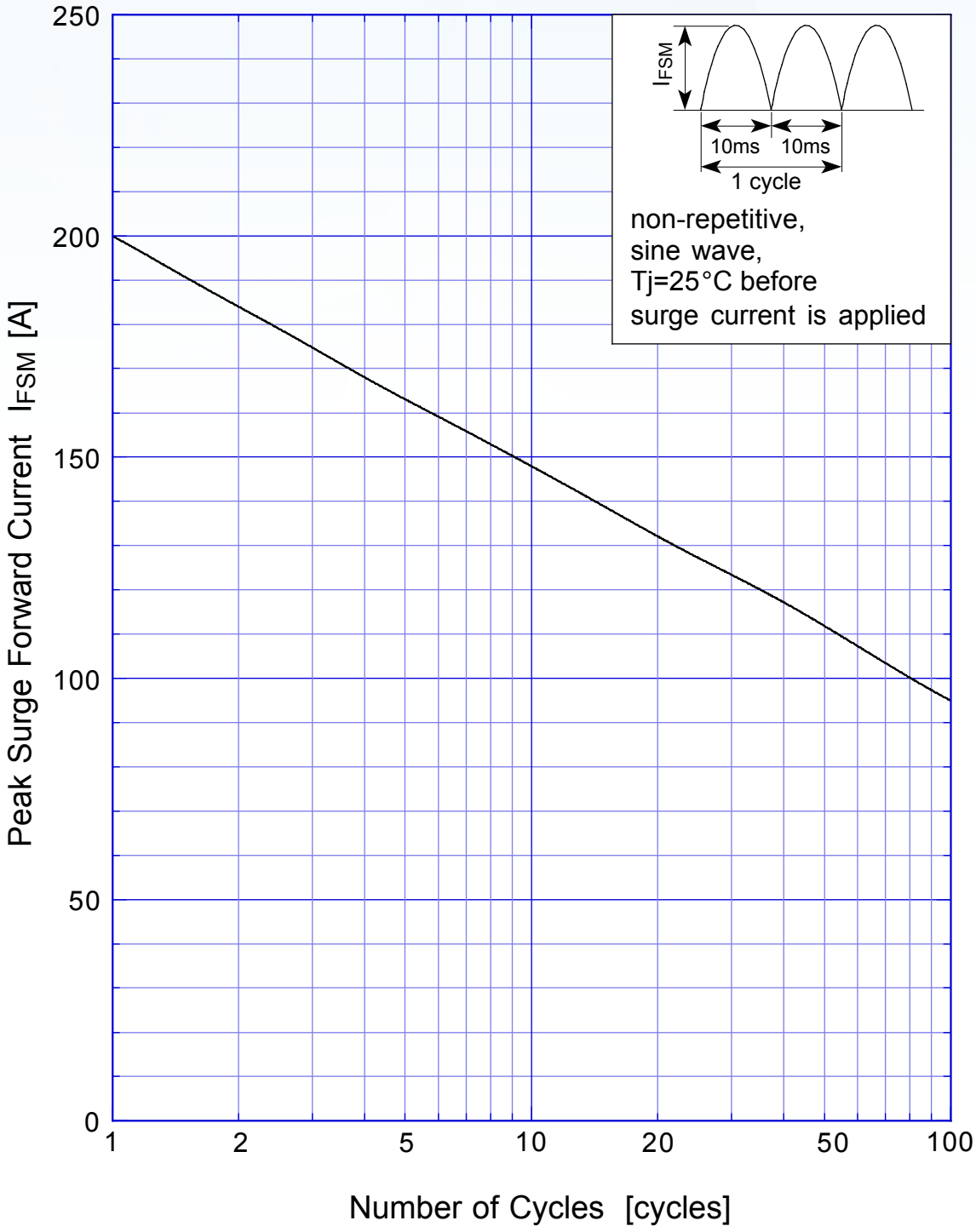


Sine wave
R-load
with heatsink



Sine wave
R-load
Free in air

D15XBx Peak Surge Forward Capability



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