

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	D15XB60
▶ Overseas	Part Number	D15XB60
▶ Equivalent	Part Number	D15XB60

EV is the abbreviation of name EVVO

General Purpose Rectifiers

D15XB60

600V 15A

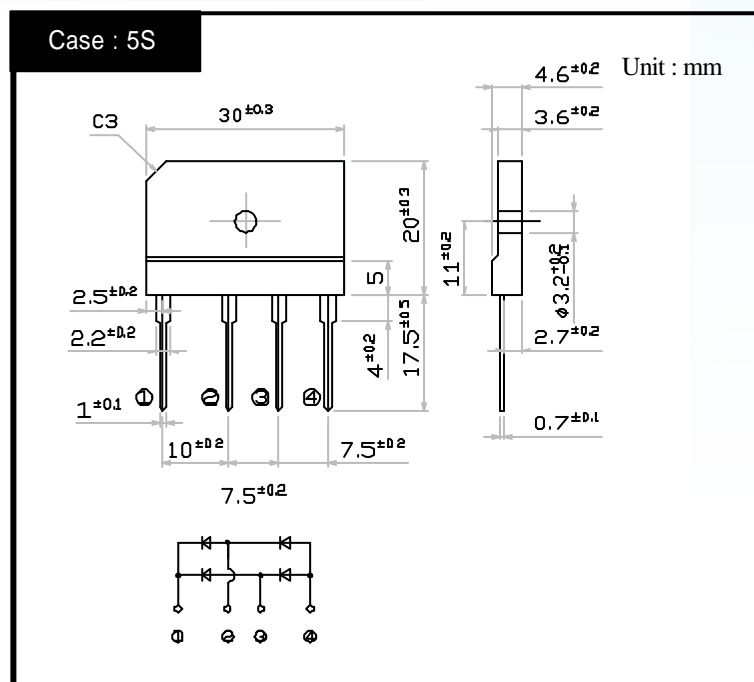
FEATURES

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



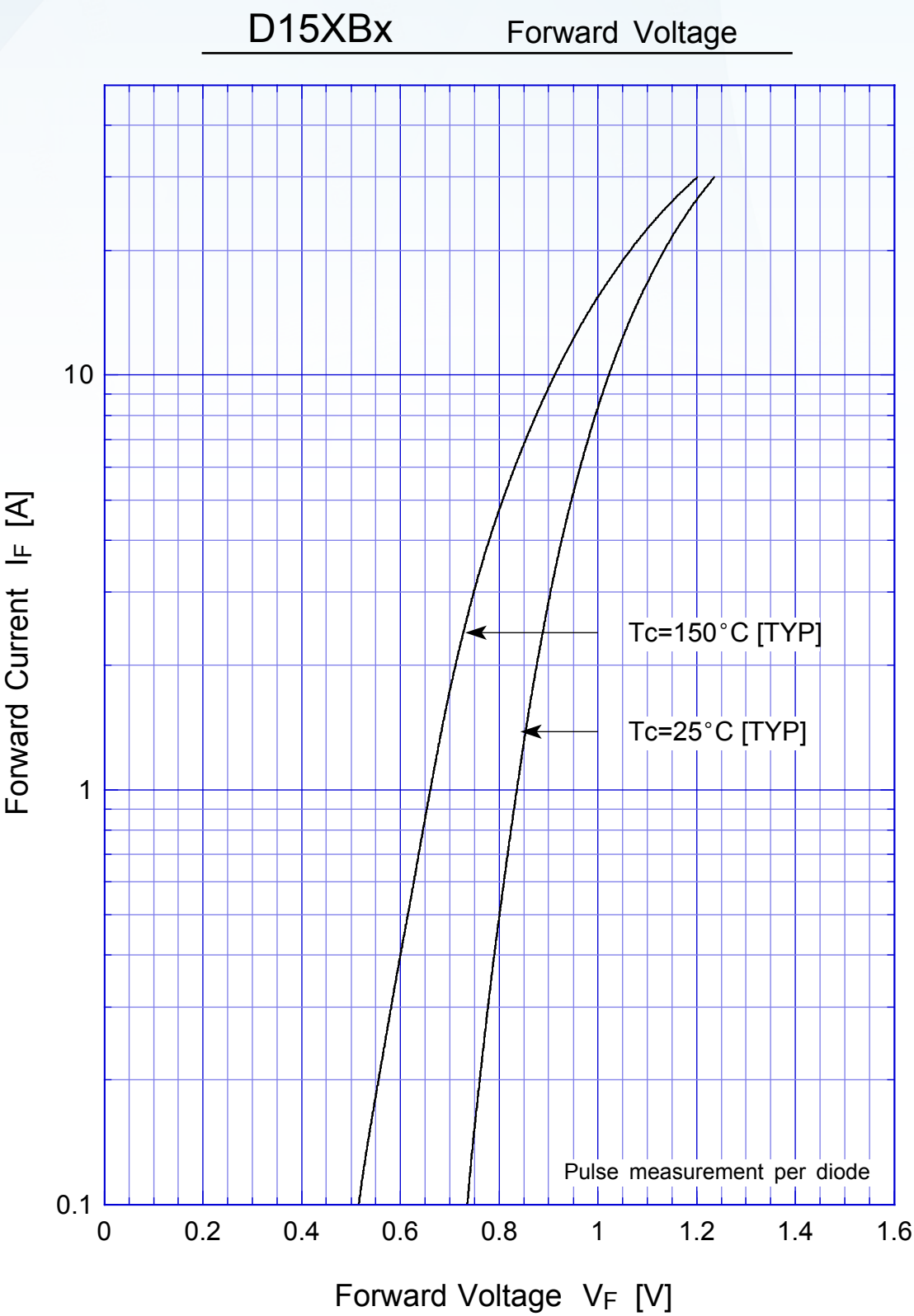
RATINGS

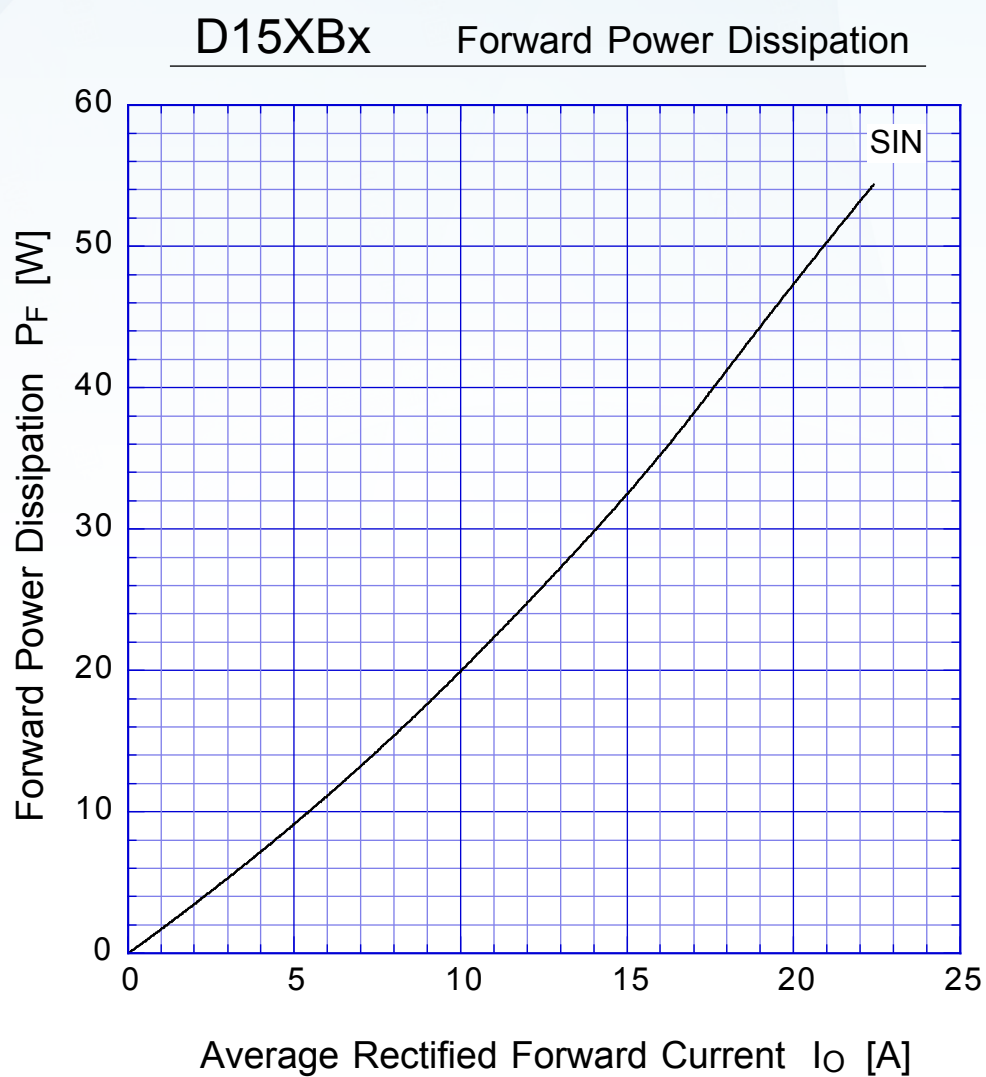
Absolute Maximum Ratings (If not specified Tc=25)

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	15	A
		50Hz sine wave, R-load Without heatsink Ta=25	3.2	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	200	A
Current Squared Time	I ² t	1ms t < 10ms Tj=25	110	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)

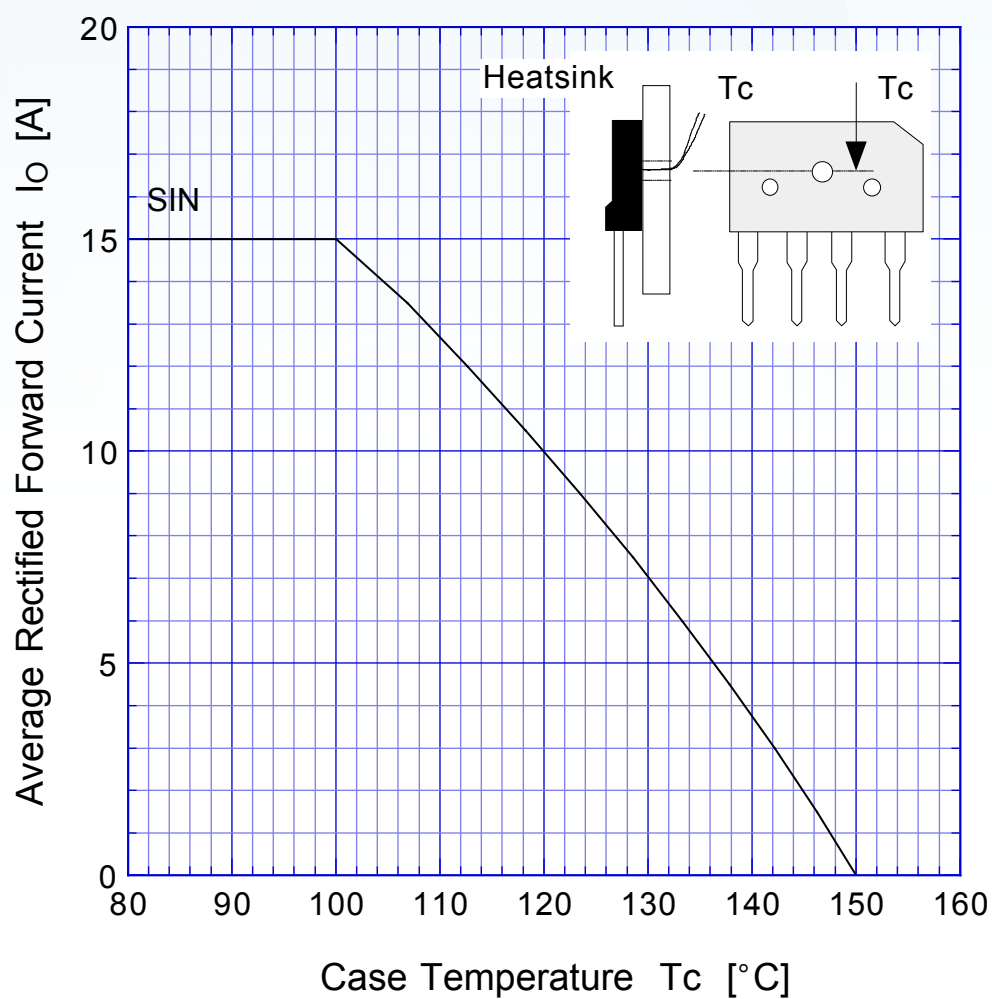
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =7.5A, Pulse measurement, Rating of per diode	Max.1.1	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	j _c	junction to case With heatsink	Max.1.5	/W
	j _l	junction to lead Without heatsink	Max.5	
	j _a	junction to ambient Without heatsink	Max.22	



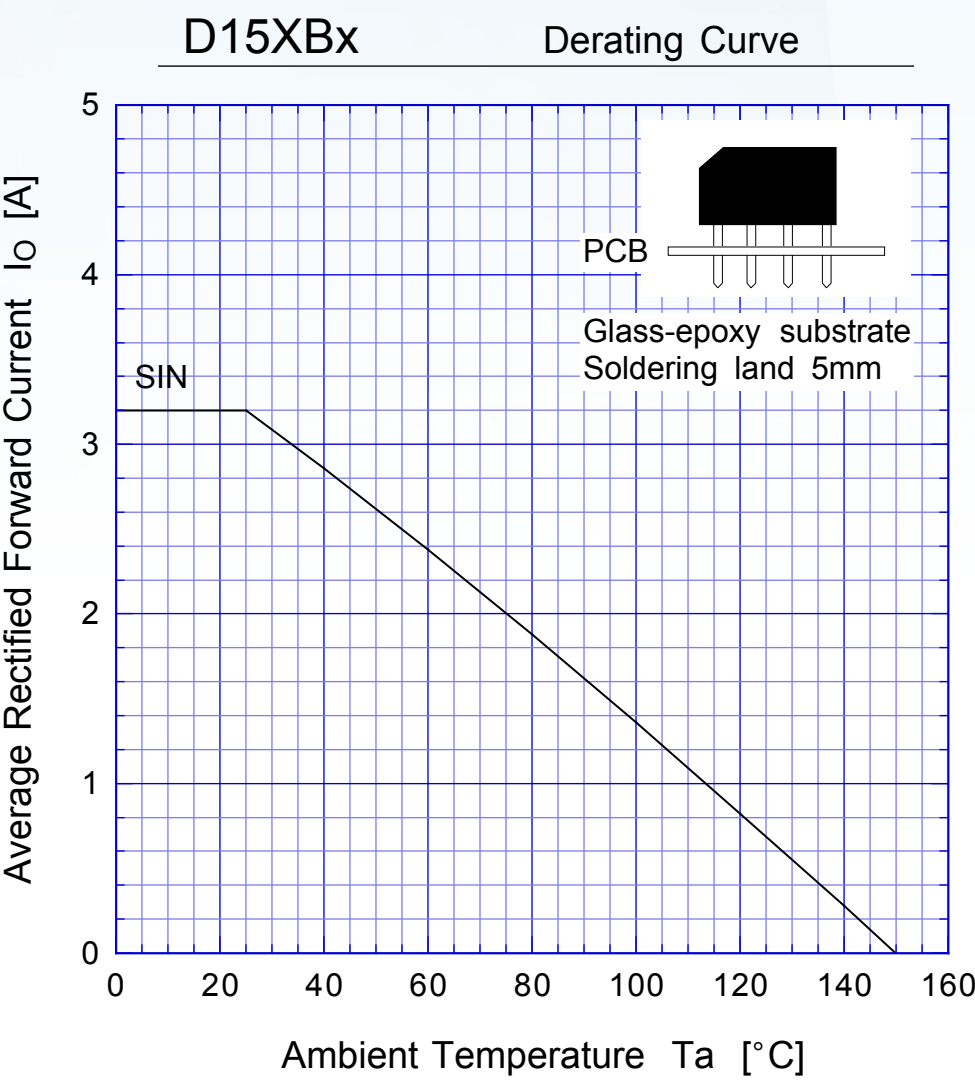


$T_j = 150^\circ\text{C}$
Sine wave

D15XBx Derating Curve

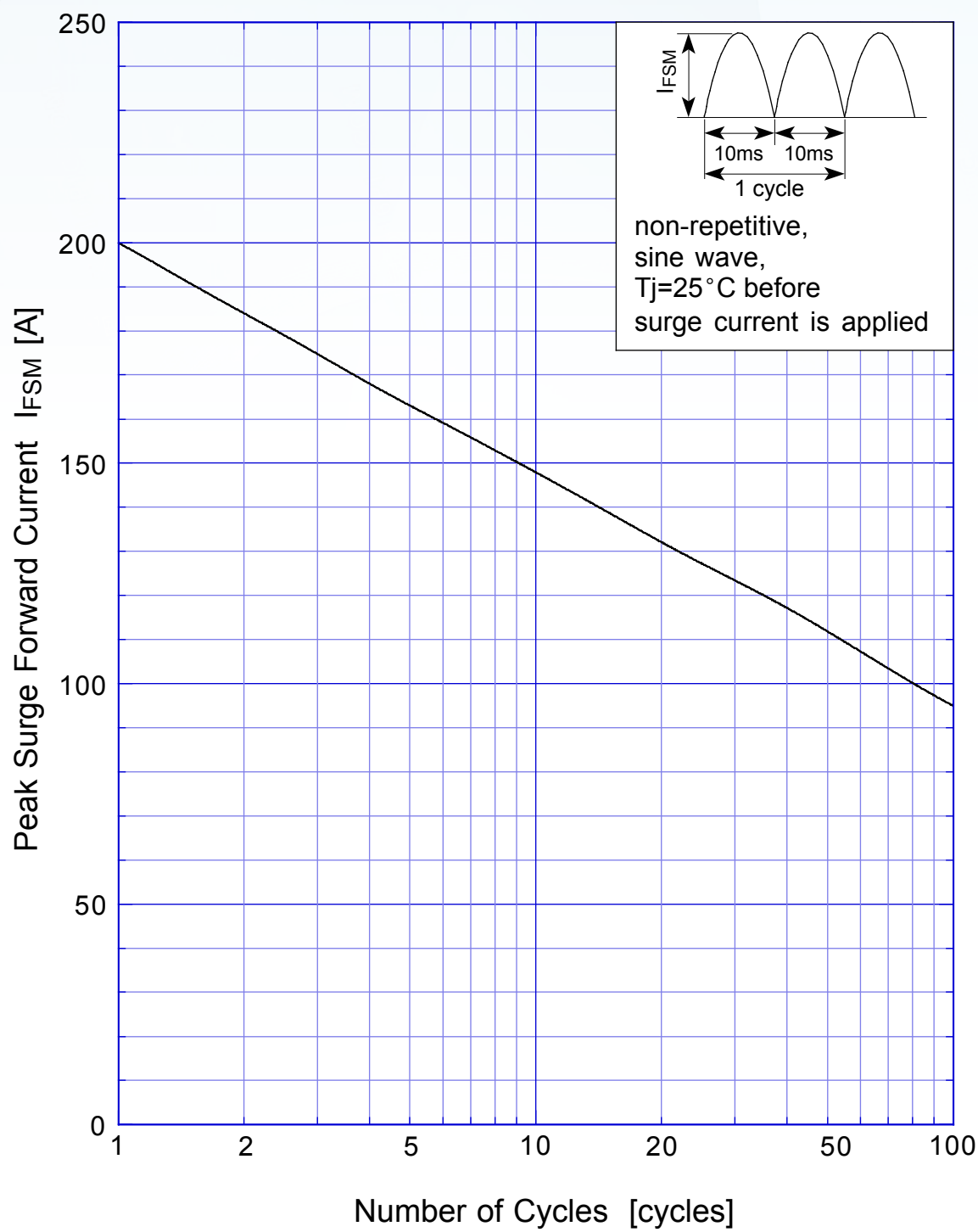


Sine wave
R-load
with heatsink



Sine wave
R-load
Free in air

D15XBx Peak Surge Forward Capability



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