

D25XB60

600V 25A

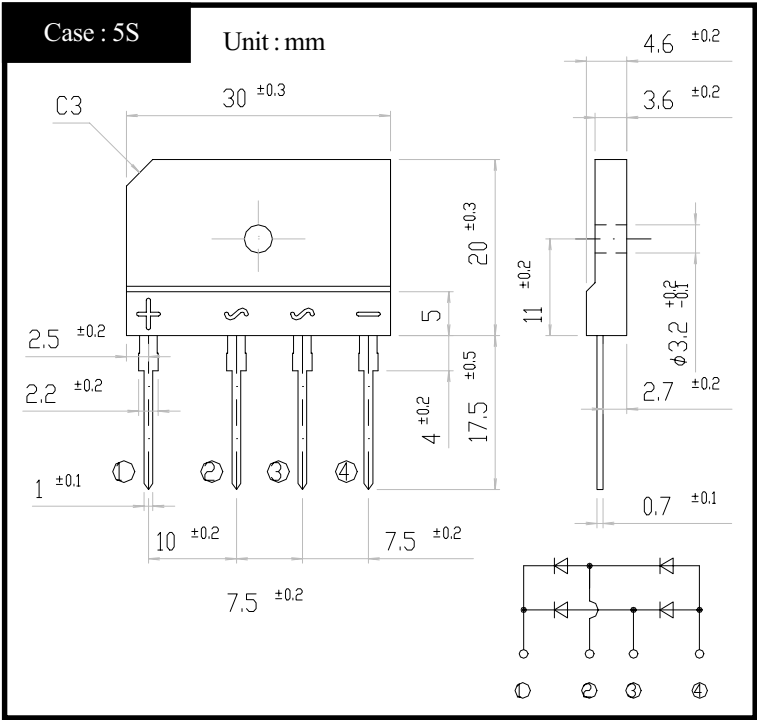
FEATURES

- 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)

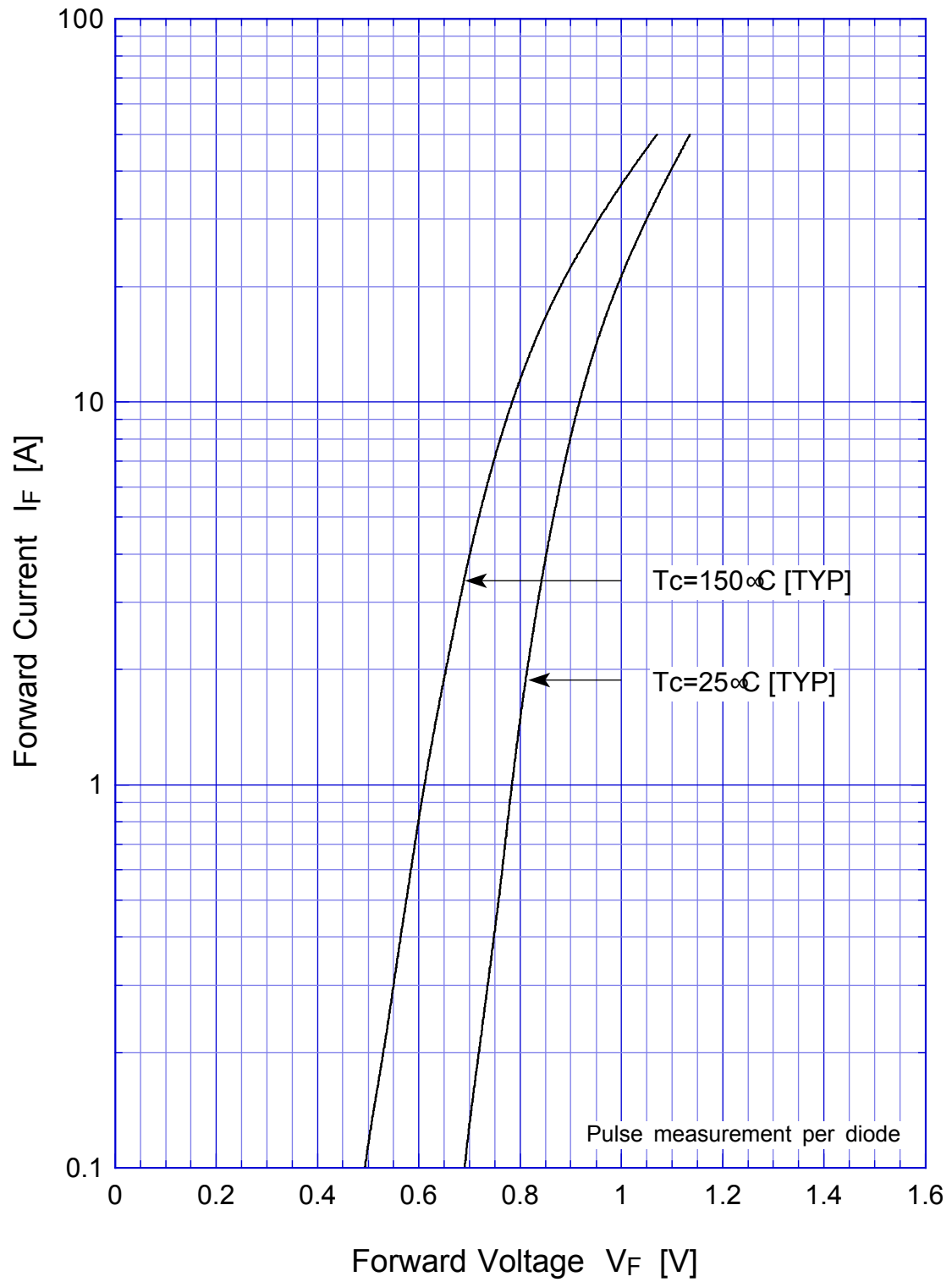
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=98°C	25	A
		50Hz sine wave, R-load Without heatsink Ta=25°C	3.5	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	350	A
Current Squared Time	I ² t	1ms≤t<10ms Tj=25°C	300	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°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	IF=12.5A, Pulse measurement, Rating of per diode	Max.1.05	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.1.0	°C/W
	θ _{jl}	junction to lead Without heatsink	Max.5	
	θ _{ja}	junction to ambient Without heatsink	Max.22	

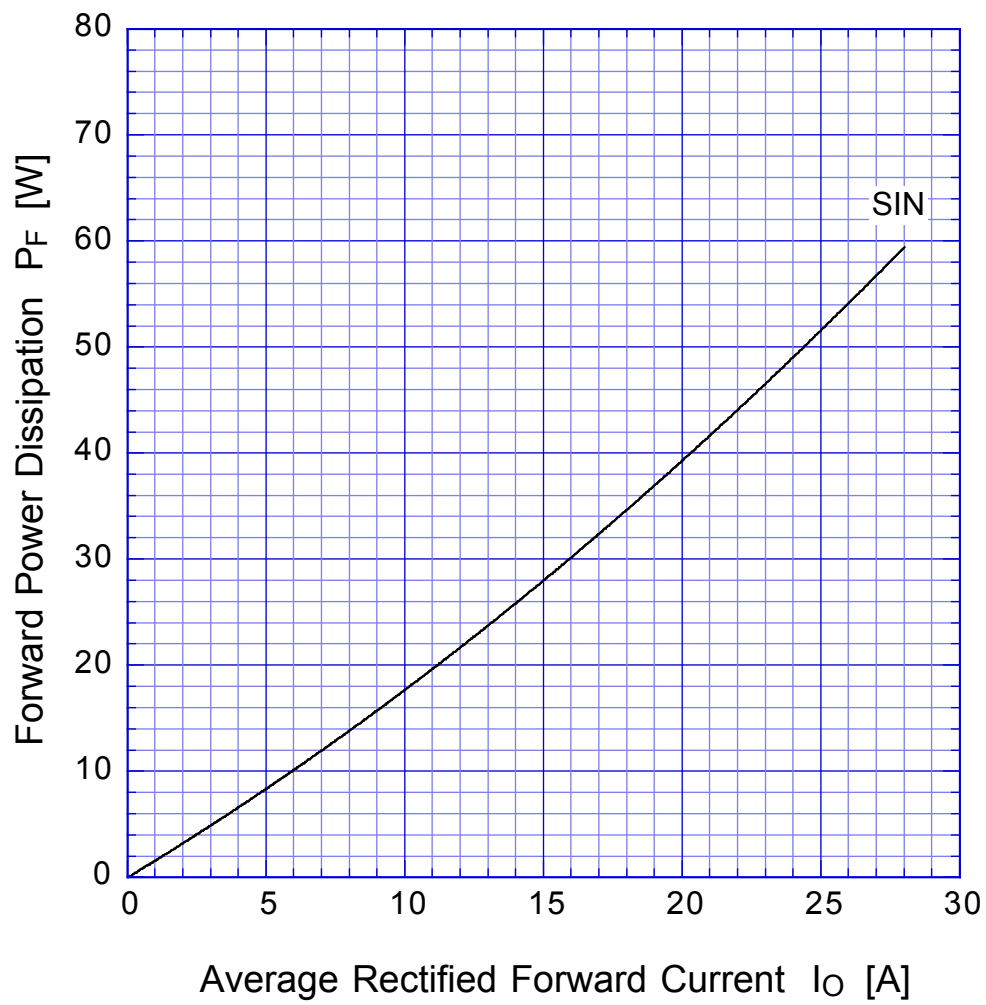
D25XBx

Forward Voltage



D25XBx

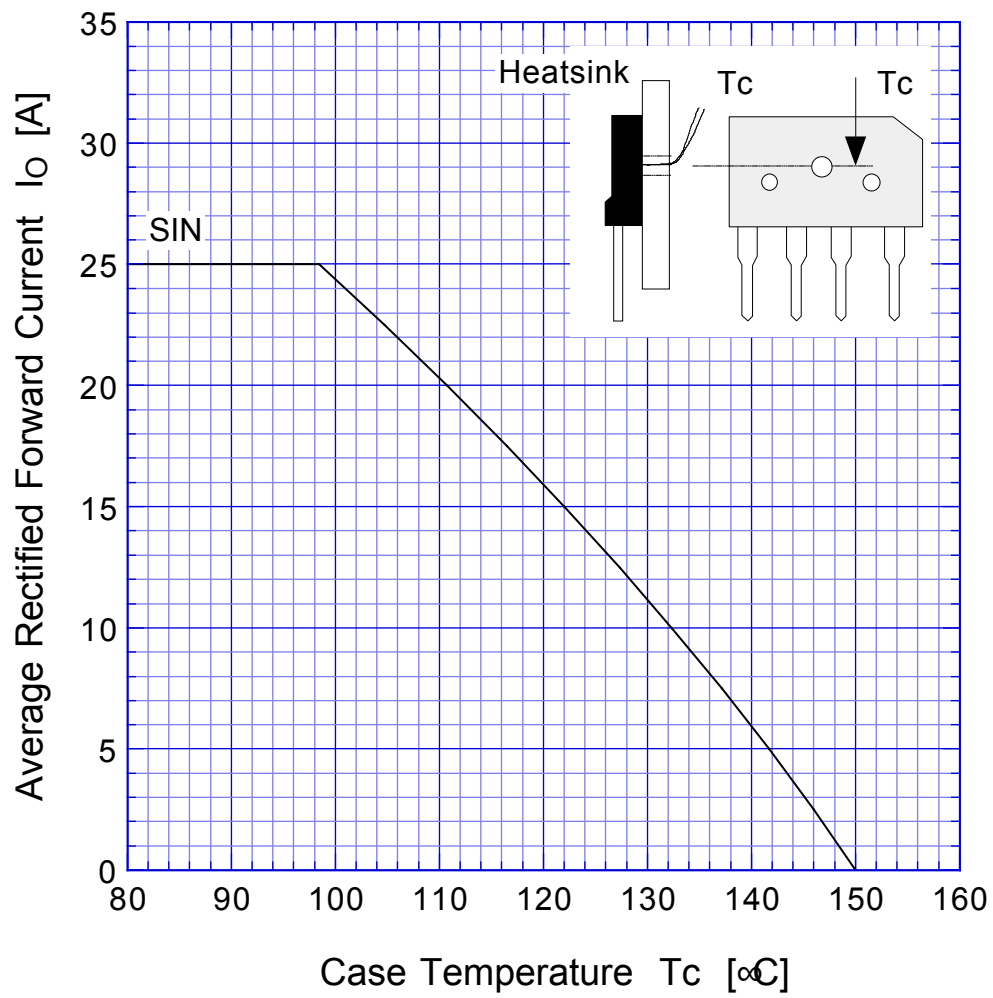
Forward Power Dissipation



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

D25XBx

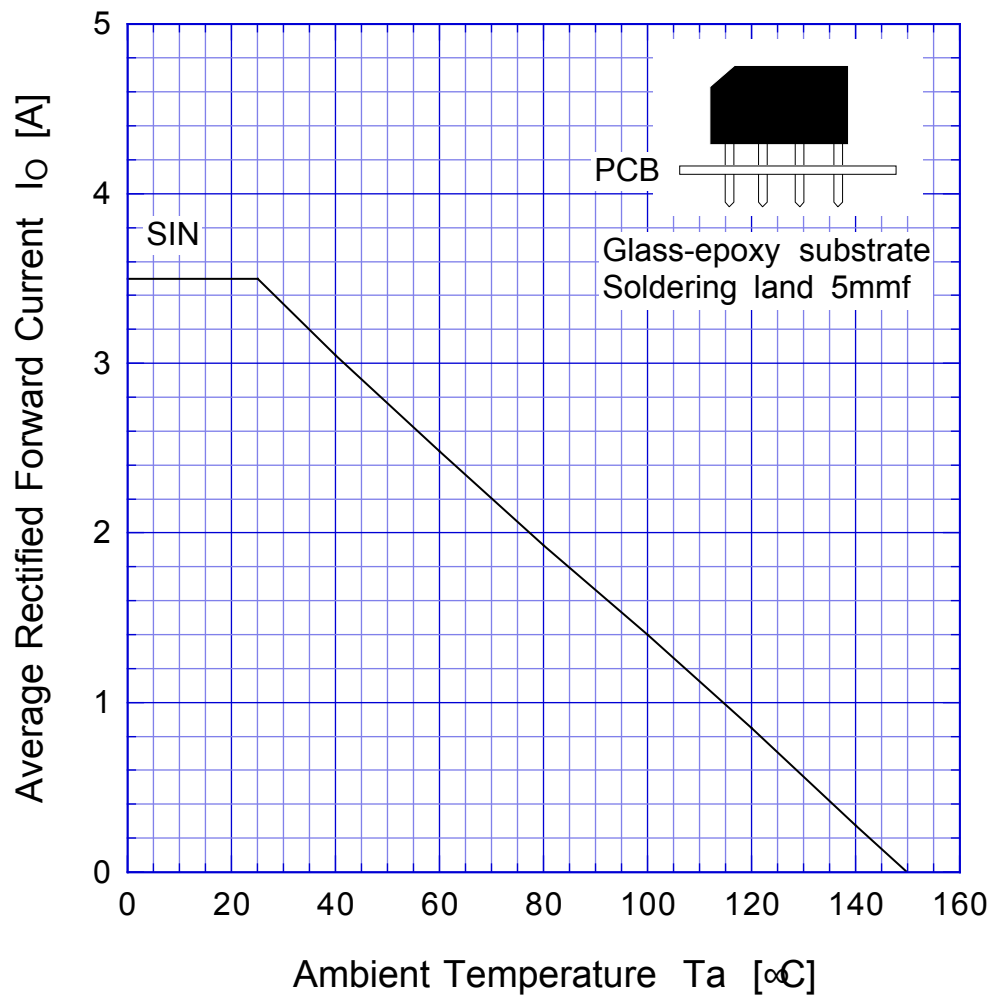
Derating Curve



Sine wave
R-load
with heatsink

D25XBx

Derating Curve



Sine wave
R-load
Free in air

D25XBx

Peak Surge Forward Capability

