General Purpose Rectifiers

D5SB60

600V 6A

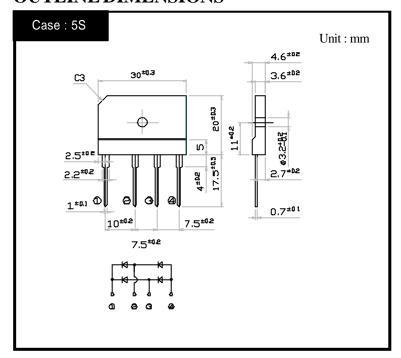
FEATURES

Thin Single In-Line Package High IFSM Applicable to Automatic Insertion

APPLICATION

Switching power supply Home Appliances, Office Equipment Telecommunication, Factory Automation

OUTLINE DIMENSIONS



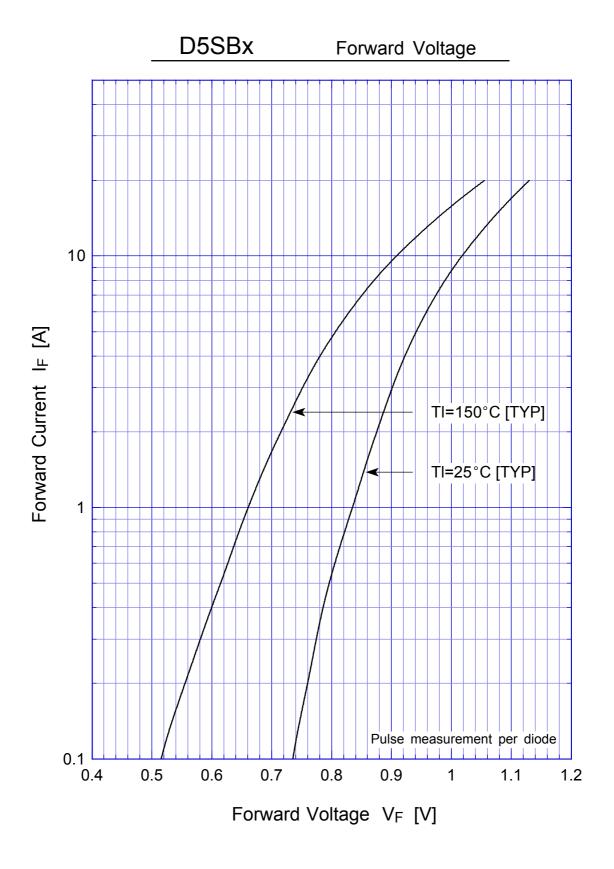
RATINGS

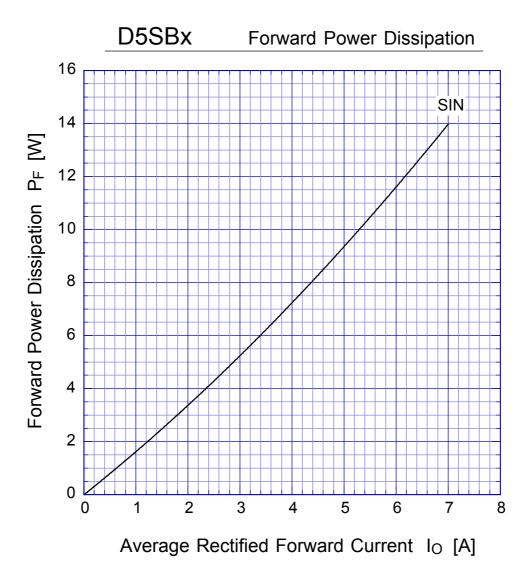
Absolute Maximum Ratingss (If not specified Tc=25)

Ausolute Waxiiiluiii Natiiluss	(11 1101 51	recined re-23 /		
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstq		-40 ~ 150	
Operating Junction Temperature	Ti		150	
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=111	6	Α
		50Hz sine wave, R-load Without heatsink Ta=25	2.8	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	170	Α
Current Squared Time	l ² t	2ms t < 10ms Tj=25	140	A ² s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque 0.5N·m)	0.8	N∙m

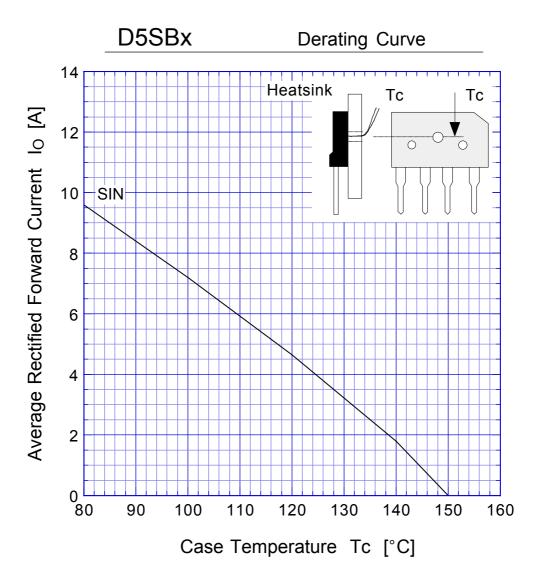
Electrical Characteristics (If not specified Tc=25)

		1104 10-20 /		
ltem	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_{F}	I _F =3A, 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	jc	junction to case With heatsink	Max.3.4	
	il	junction to lead Without heatsink	Max.5	/W
	ja	junction to ambient Without heatsink	Max.26	

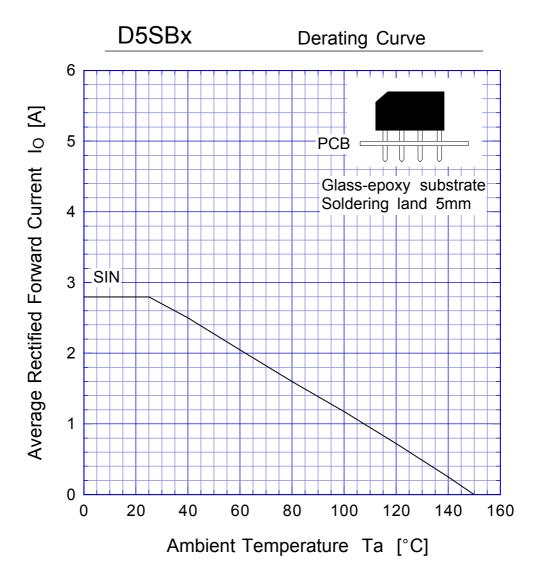




Tj = 150°C Sine wave



Sine wave R-load with heatsink



Sine wave R-load Free in air

