SHINDENGEN

General Purpose Rectifiers

SIL Bridges

D5SBA60

600V 6A

FEATURES

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

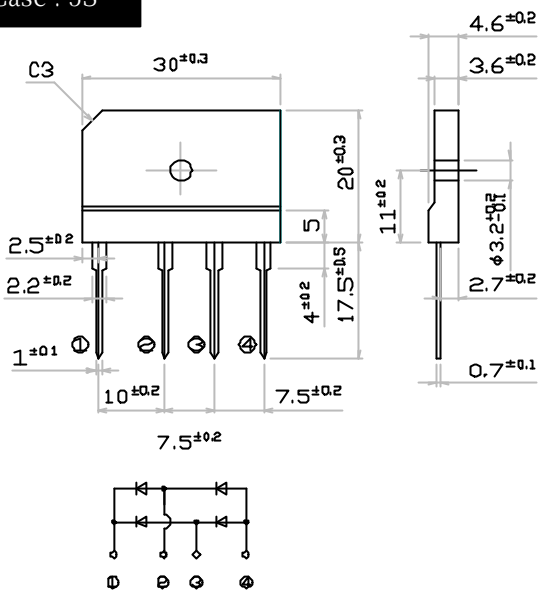
APPLICATION

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

OUTLINE DIMENSIONS

Case : 5S

Unit : mm



RATINGS

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

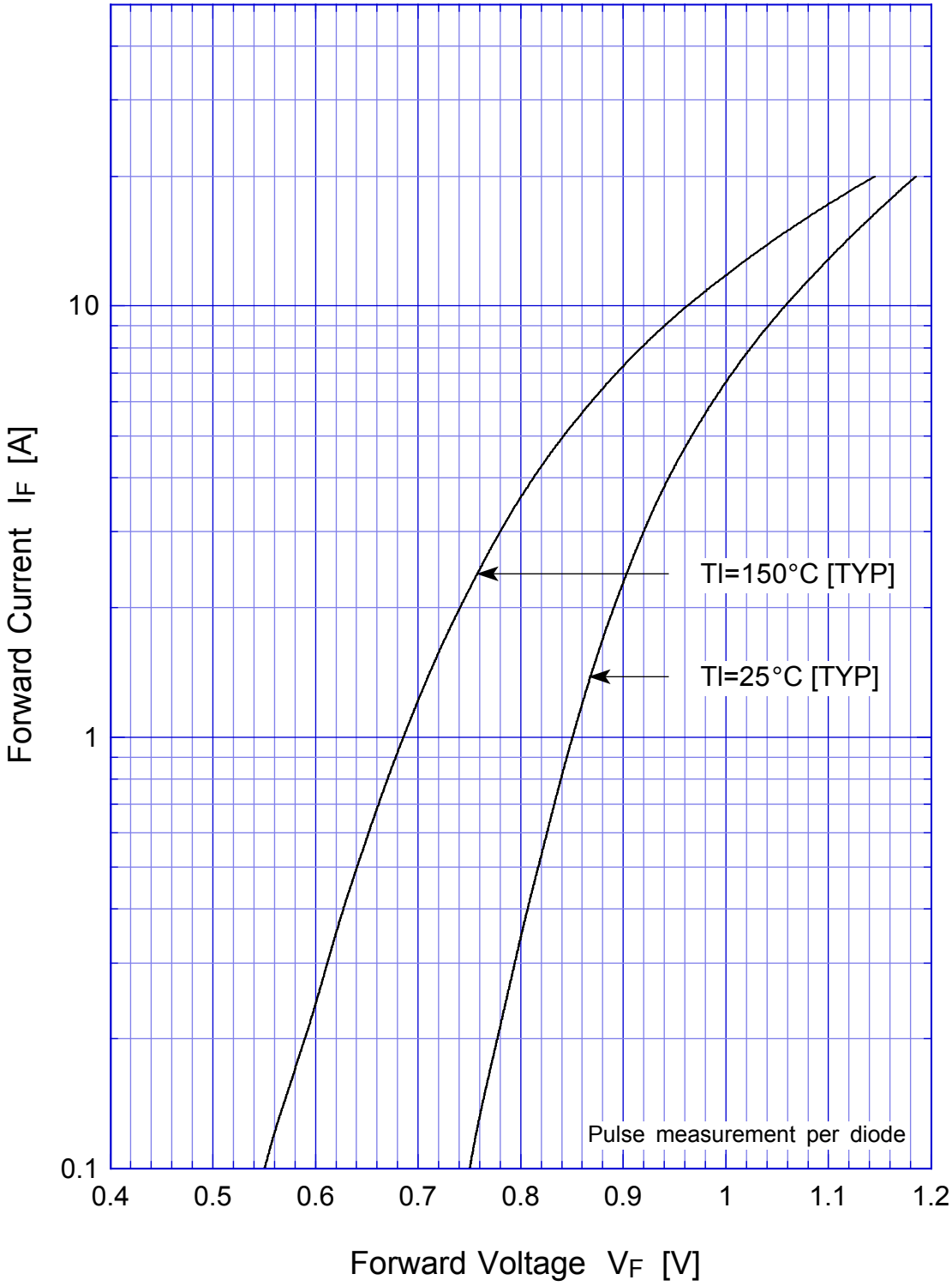
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load With heatsink Tc=111°C	6	A
		50Hz sine wave, R-load Without heatsink Ta=25°C	2.8	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	120	A
Current Squared Time	I^2t	1ms≦t＜10ms Tj=25°C	60	A^2S
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°C)

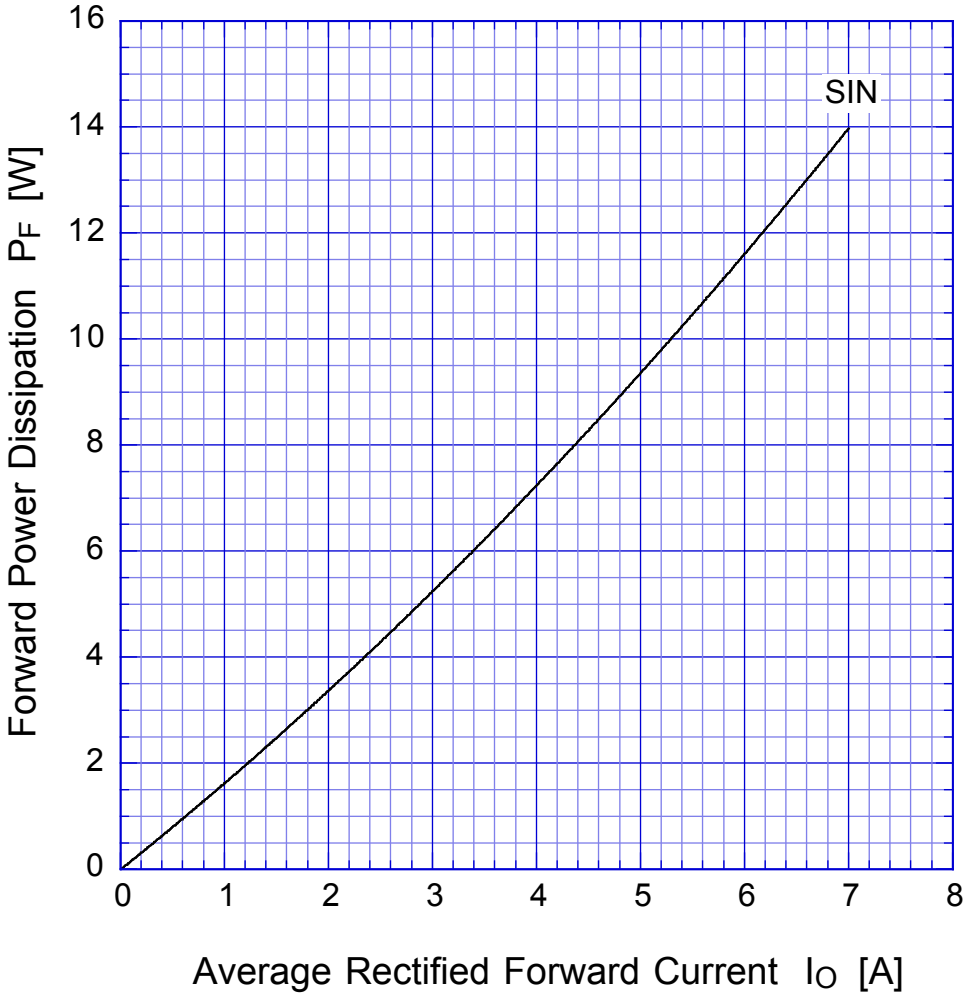
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=3.0A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θjc	junction to case With heatsink	Max.3.4	°C/W
	θjl	junction to lead Without heatsink	Max.5	
	θja	junction to ambient Without heatsink	Max.26	

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D5SBAx Forward Voltage

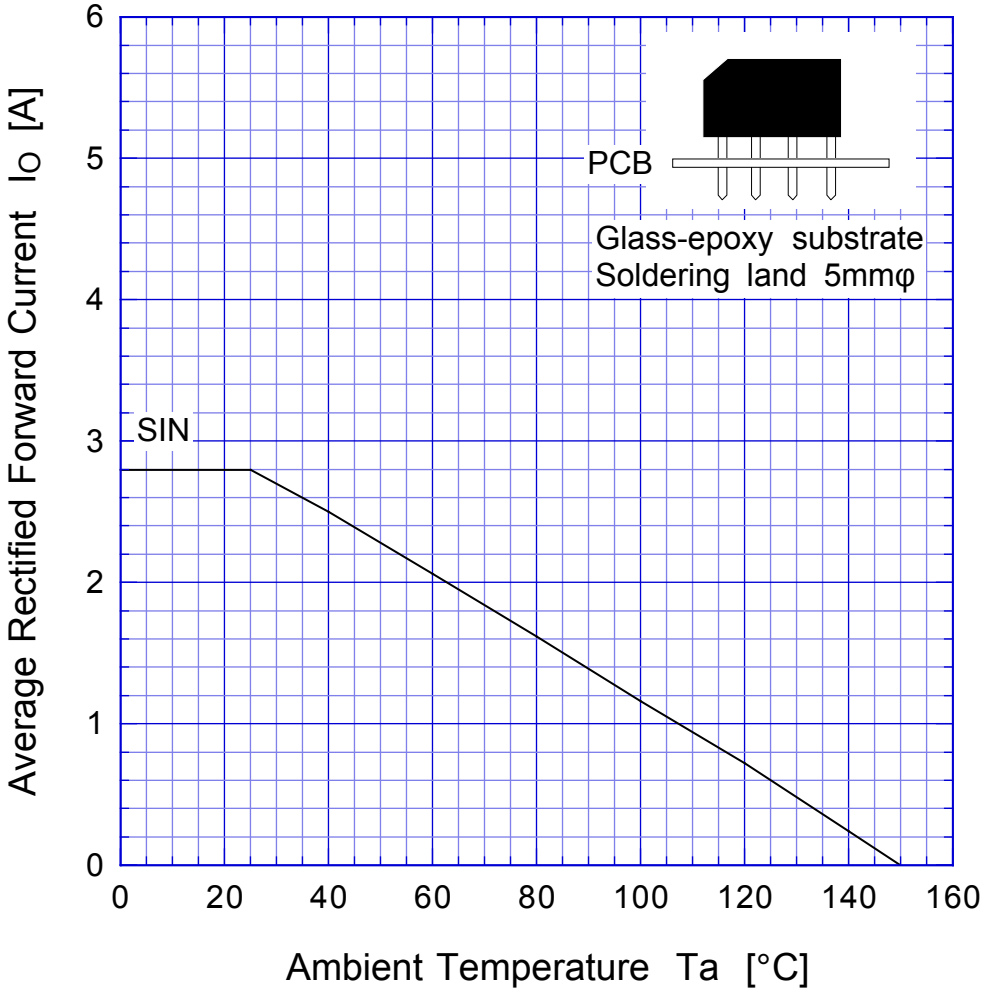


D5SBAx Forward Power Dissipation



Tj = 150°C
Sine wave

D5SBAx Derating Curve



Sine wave
R-load
Free in air

D5SBAx Peak Surge Forward Capability

