SHINDENGEN

General Purpose Rectifiers

SIL Bridges

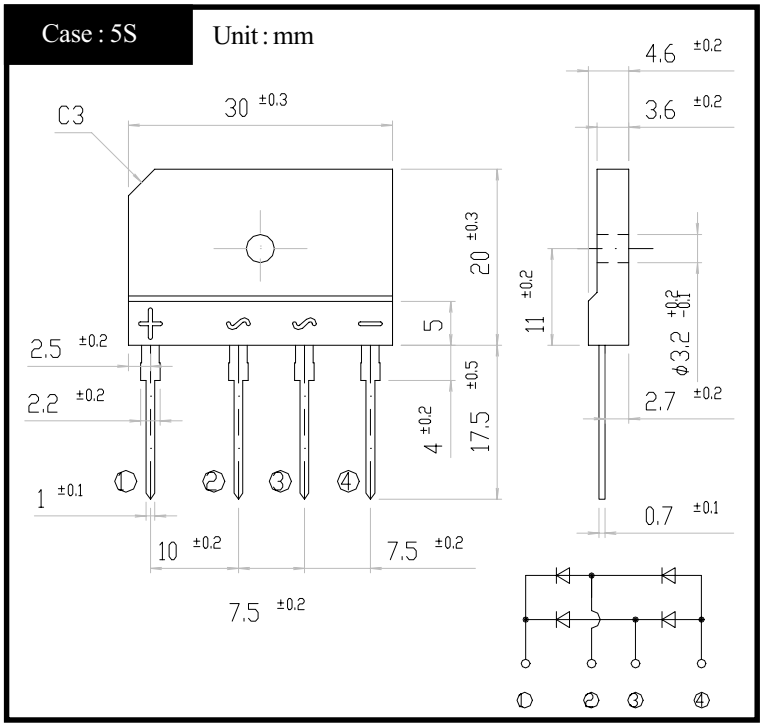
D6SB60L

600V 6A

OUTLINE DIMENSIONS

Case : 5S

Unit : mm



RATINGS

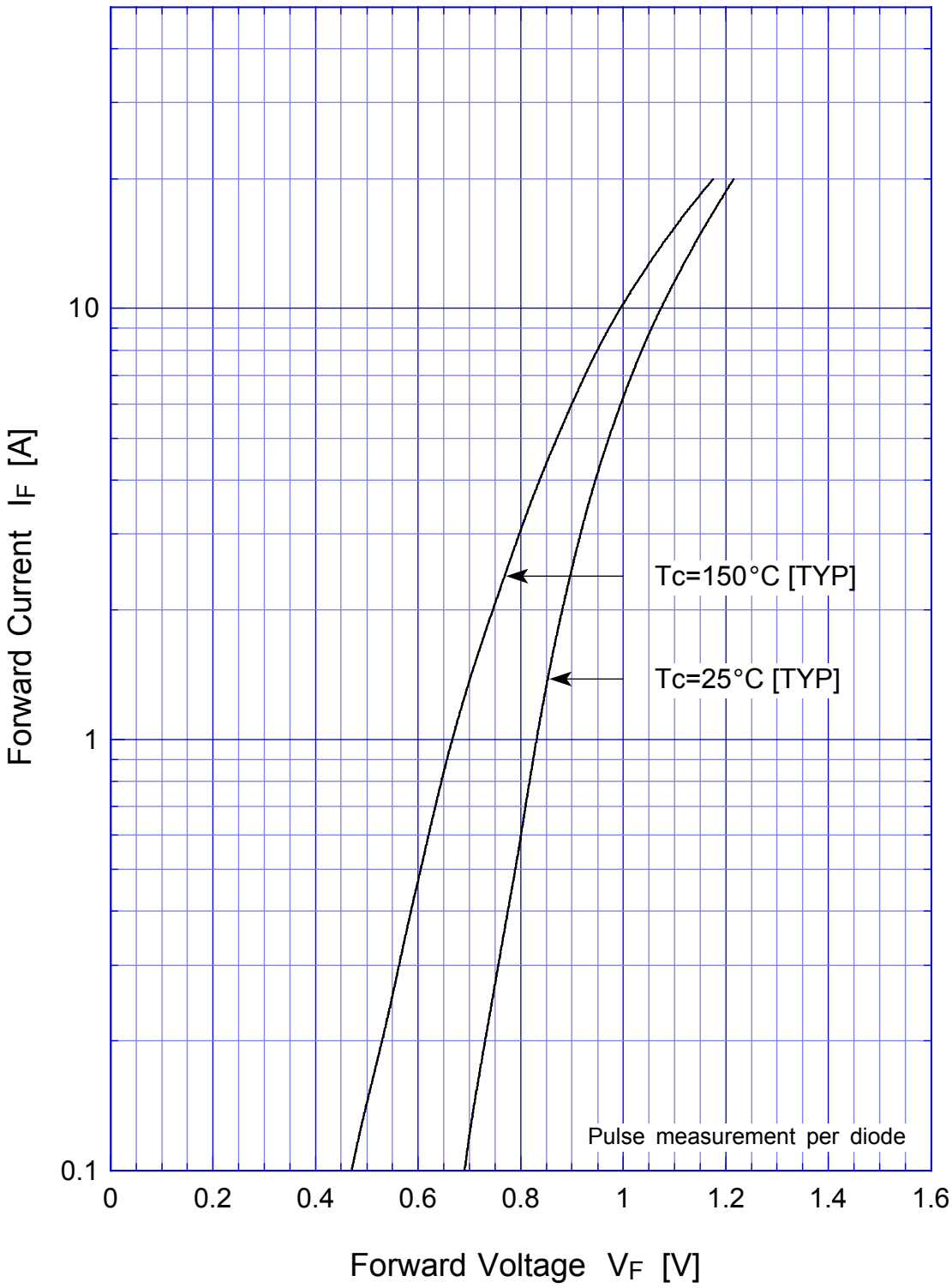
●Absolute Maximum Ratings (If not specifiedTl=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		−40～150	℃
Operating Junction Temperature	T_j		150	℃
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load With heatsink Tc=112℃	6	A
		50Hz sine wave, R-load Without heatsink Ta=25℃	2.8	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 ℃	170	A
Current Squared Time	I^2t	2ms≦t＜10ms Tj = 25℃	90	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

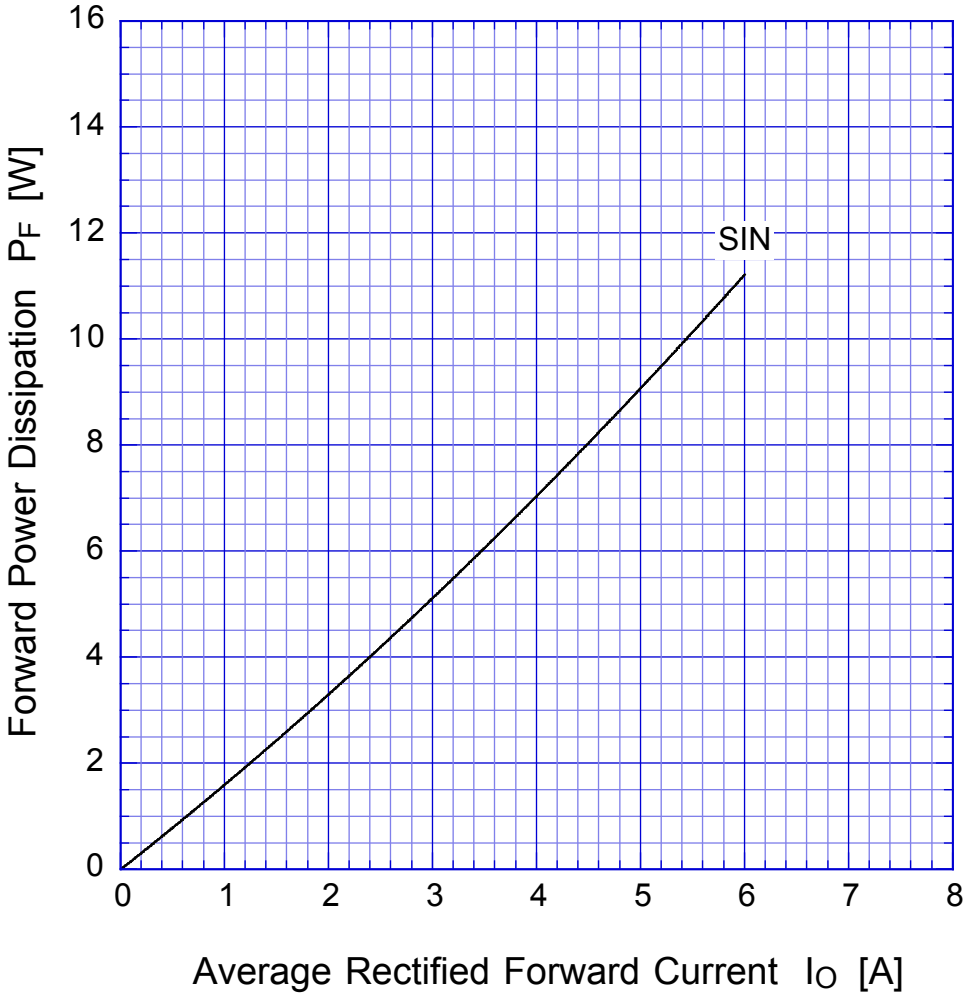
●Electrical Characteristics (If not specifiedTl=25℃)

Item	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
Reverse Recovery Time	t_{rr}	I_F=0.1A, I_R=0.1A Rating of per diode	Max.10	μs
Thermal Resistance	θjc	junction to case With heatsink	Max.3.4	℃/W
	θjl	junction to lead Without heatsink	Max.5	
	θja	junction to ambient Without heatsink	Max.26	

D6SB60L Forward Voltage

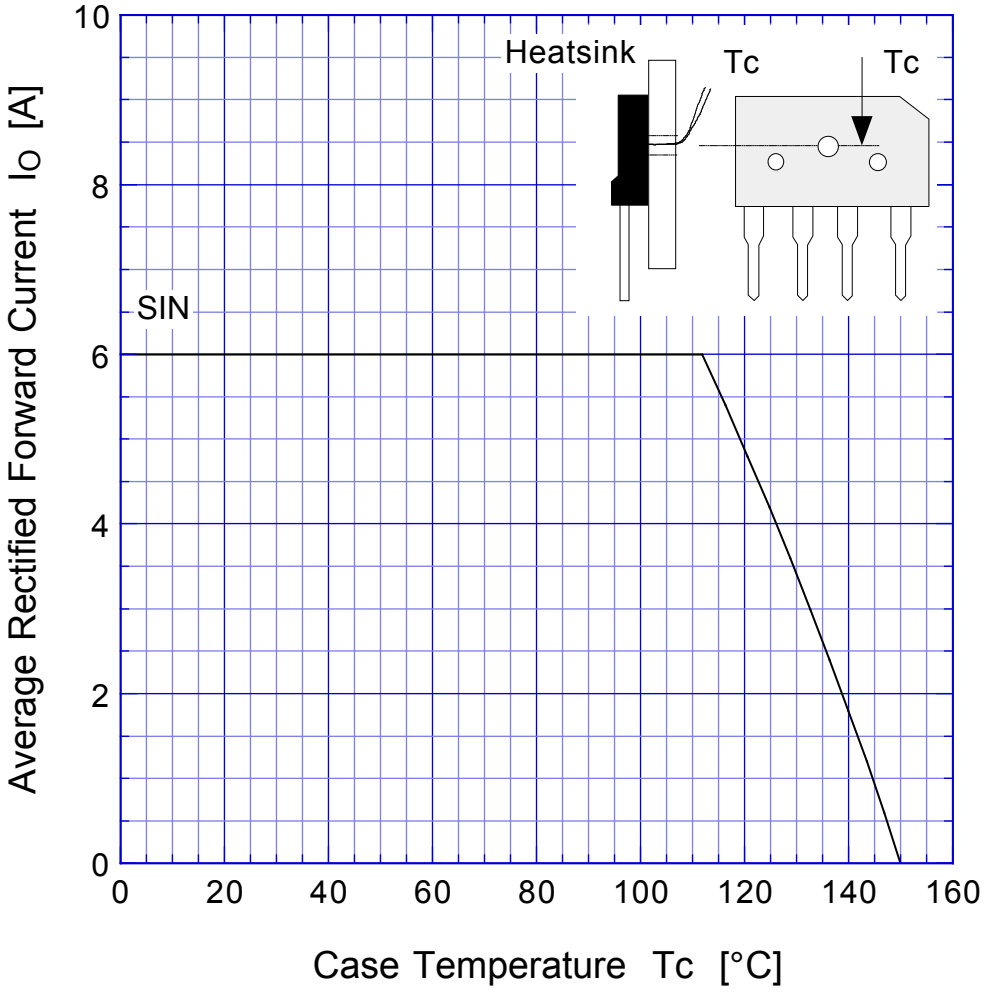


D6SB60L Forward Power Dissipation



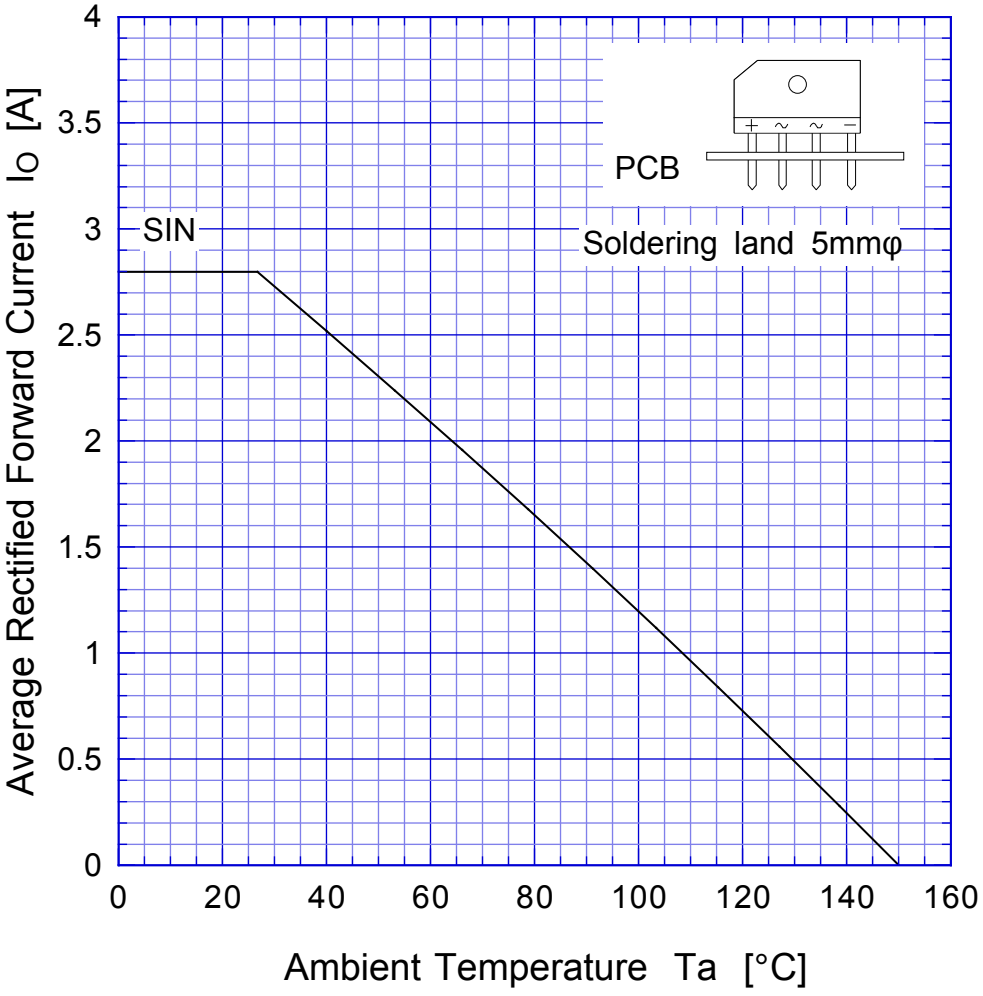
Tj = 150°C
Sine wave

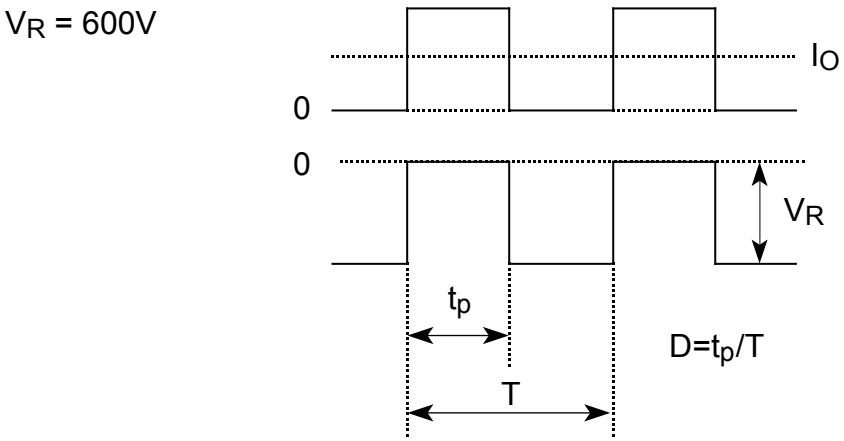
D6SB60L Derating Curve



Sine wave
R-load
with heatsink

D6SB60L Derating Curve





D6SB60L Peak Surge Forward Capability