SHINDENGEN

General Purpose Rectifiers

Low Noise Bridges

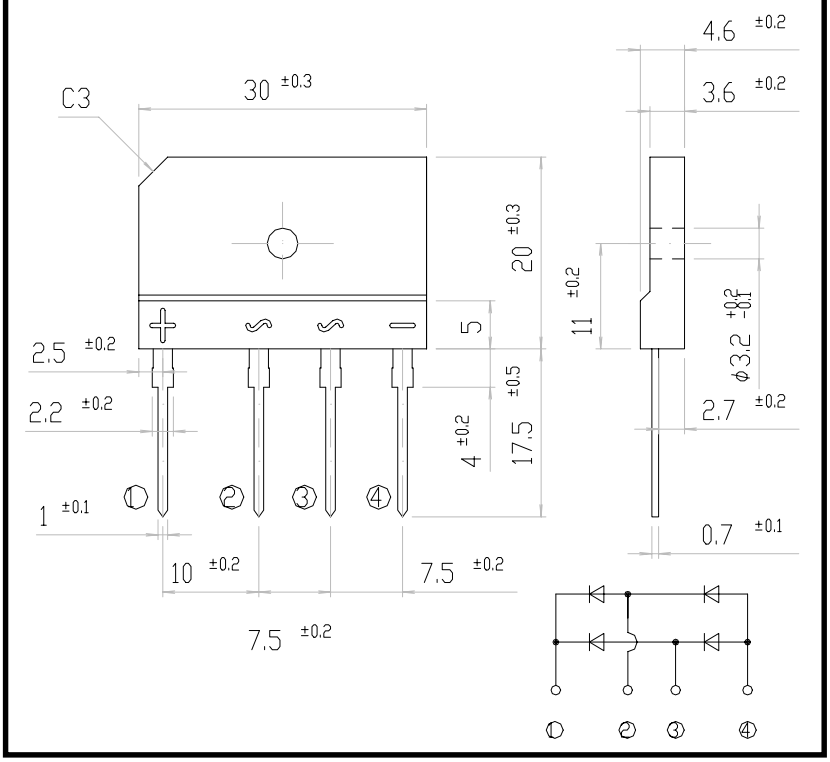
LN25XB60

600V 25A

OUTLINE DIMENSIONS

Case : 5S

(Unit : mm)



RATINGS

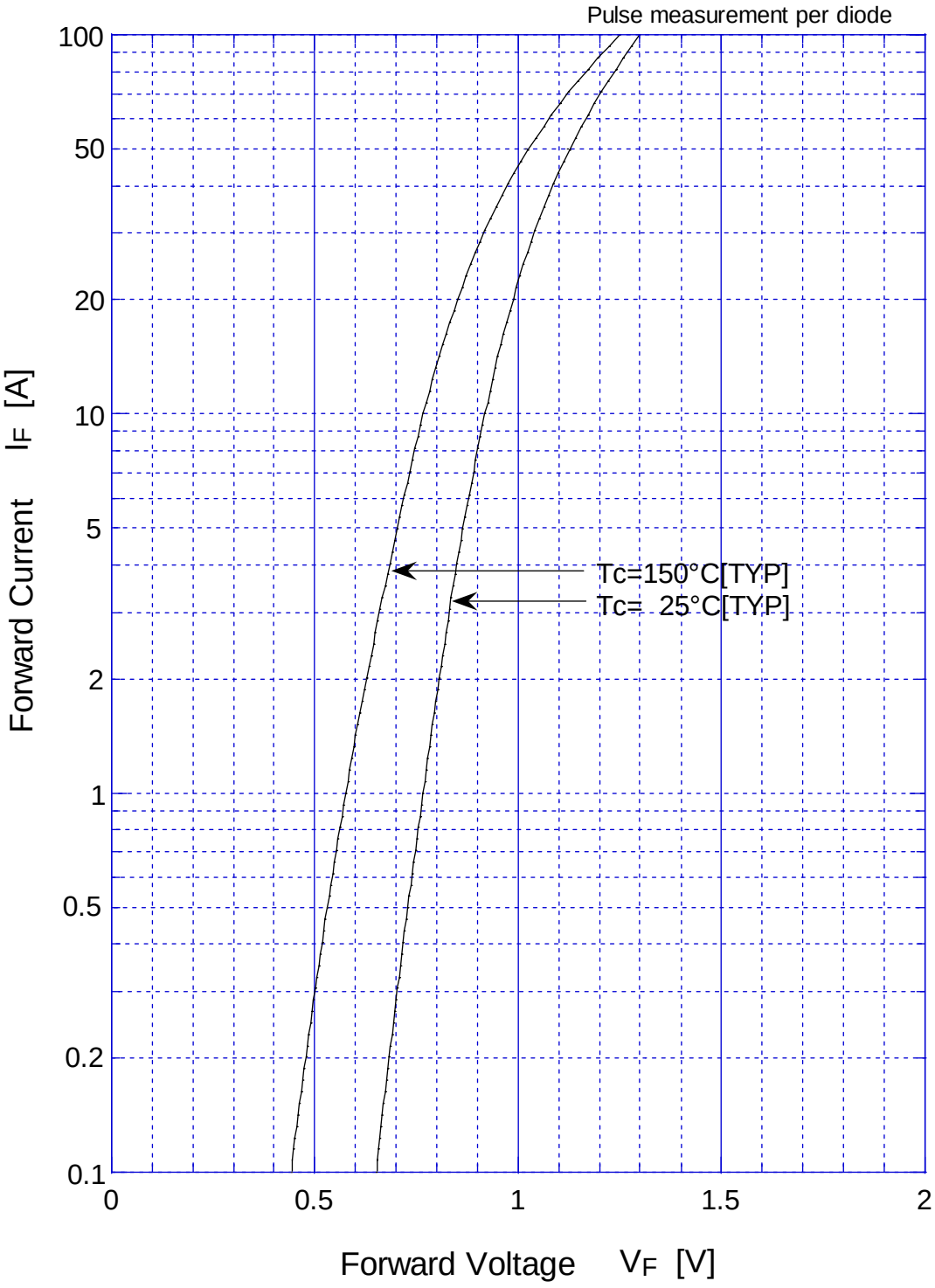
Absolute Maximum Ratings (Unless otherwise specified, Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, With heatsink, Tc=85℃	25	A
	Io	50Hz sine wave, R-load, Without heatsink, Ta=25℃	3.4	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25℃	350	A
Current Squared Time	I^2t	1ms≦t＜10ms, per diode, Tj=25℃	300	A^2s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting Torque	TOR	(Recommended torque : 0.5 N.m)	0.8	N.m

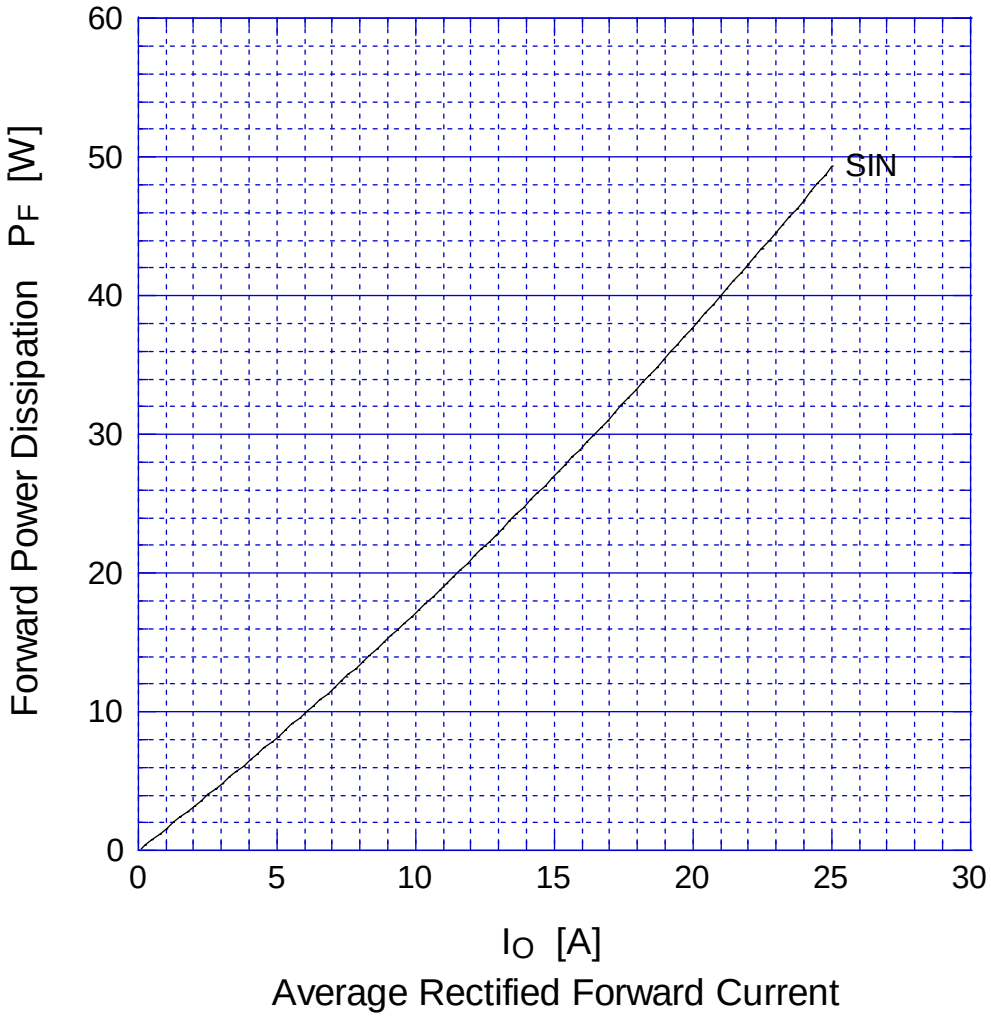
Electrical Characteristics (Unless otherwise specified, Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=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
Reverse Recovery Time	trr	I_F=0.1A, I_R=0.1A, Rating of per diode	Max 5	μs
Thermal Resistance	θjc	Junction to case, With heatsink	Max 1.3	℃/W
	θjl	junction to lead, Without heatsink	Max 5	
	θja	junction to ambient, Without heatsink	Max 23	

LN25XB60 Forward Voltage

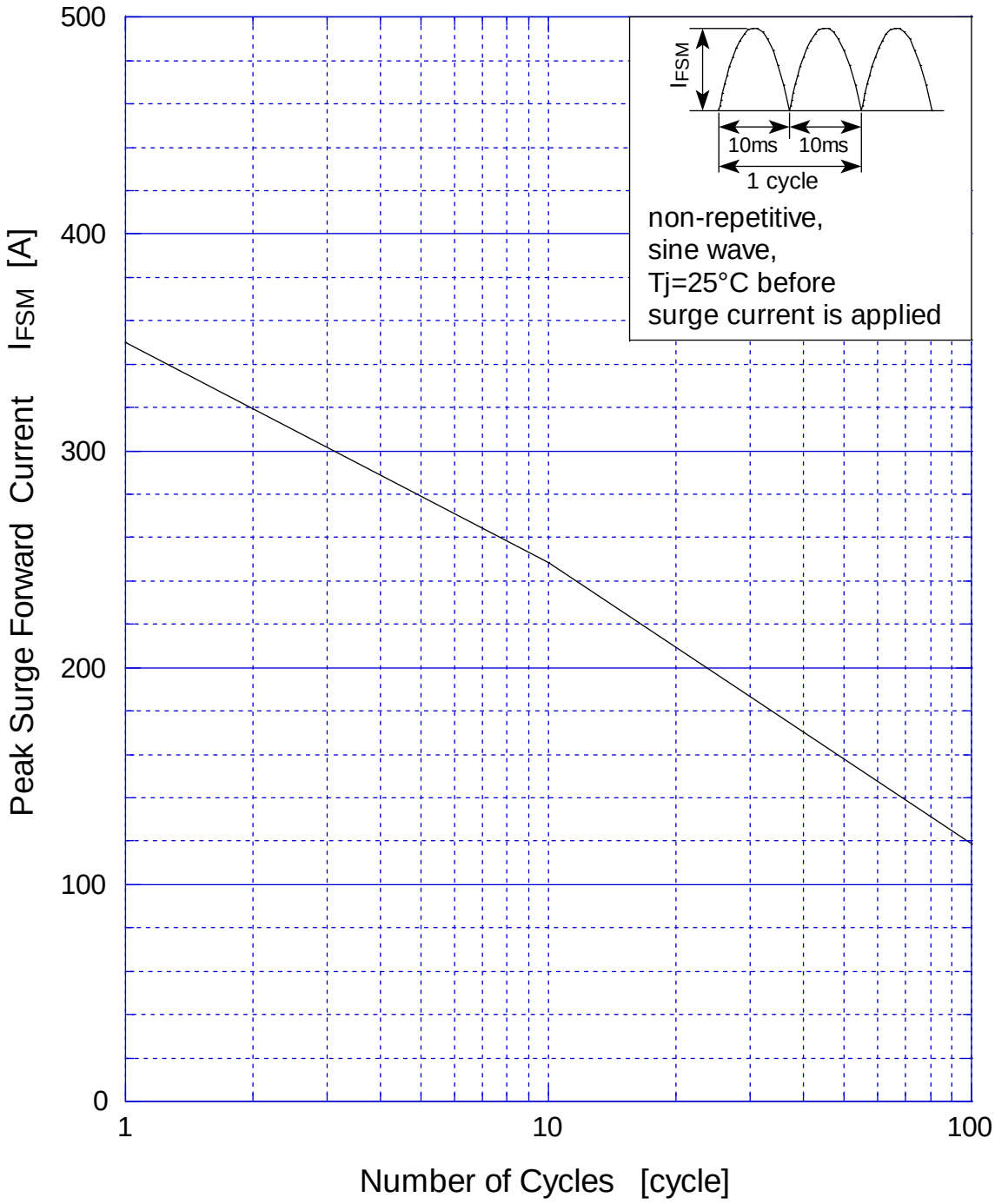


LN25XB60 Forward Power Dissipation

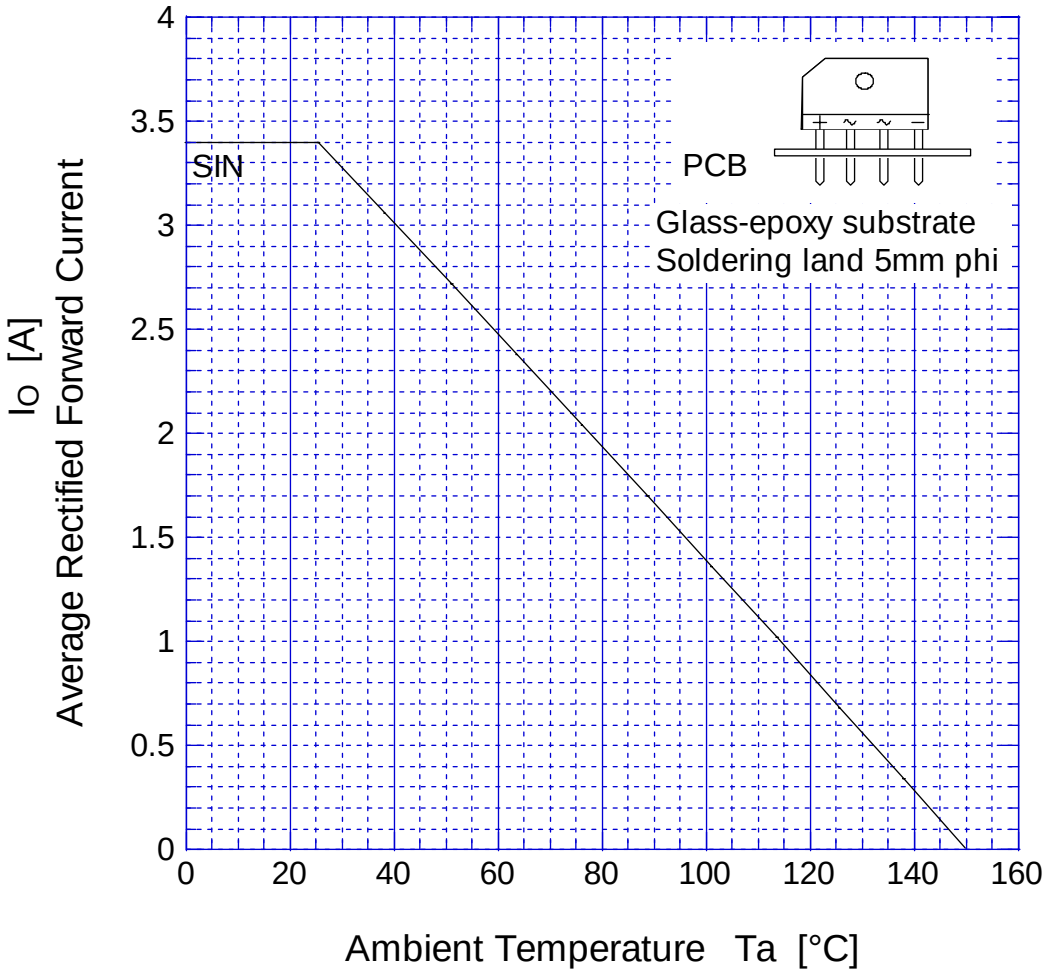


Tj = 150°C

LN25XB60 Peak Surge Forward Capability

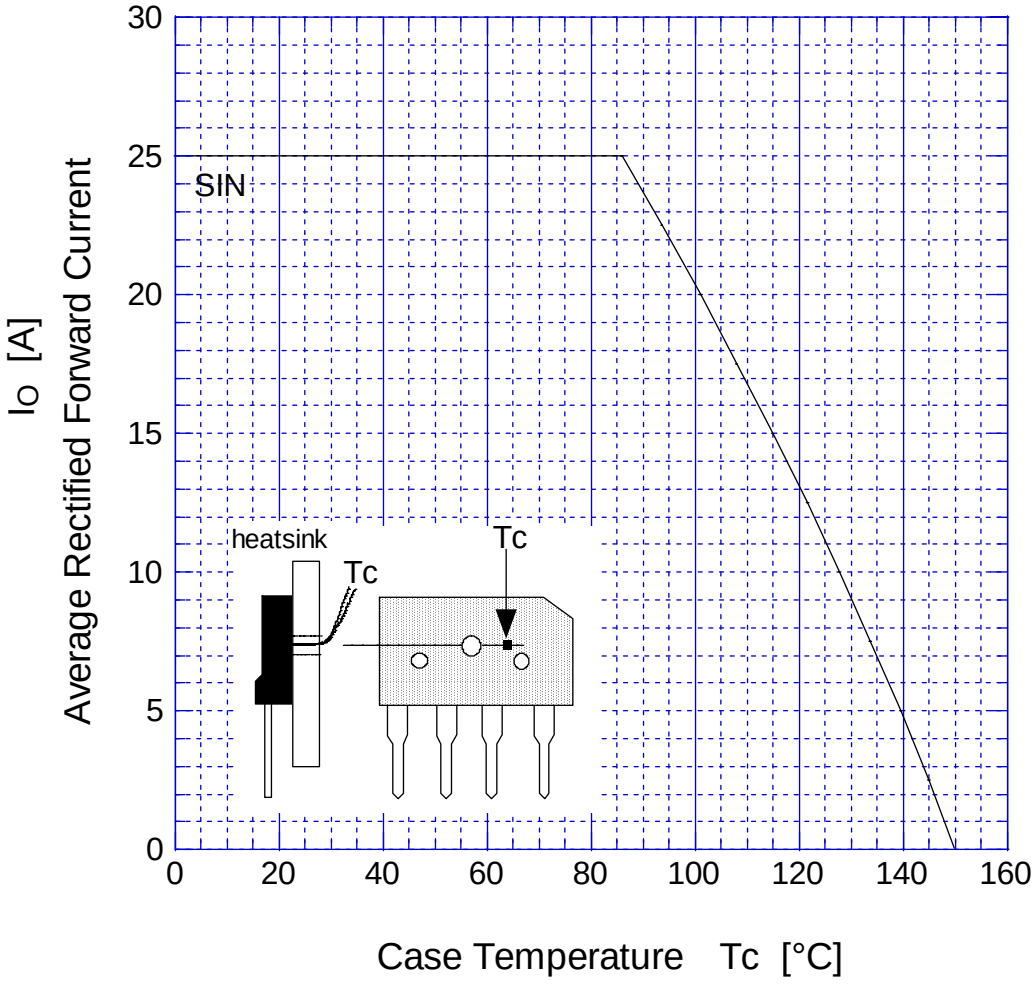


LN25XB60 Derating Curve



$V_R = V_{RM}$

LN25XB60 Derating Curve



$V_R = V_{RM}$