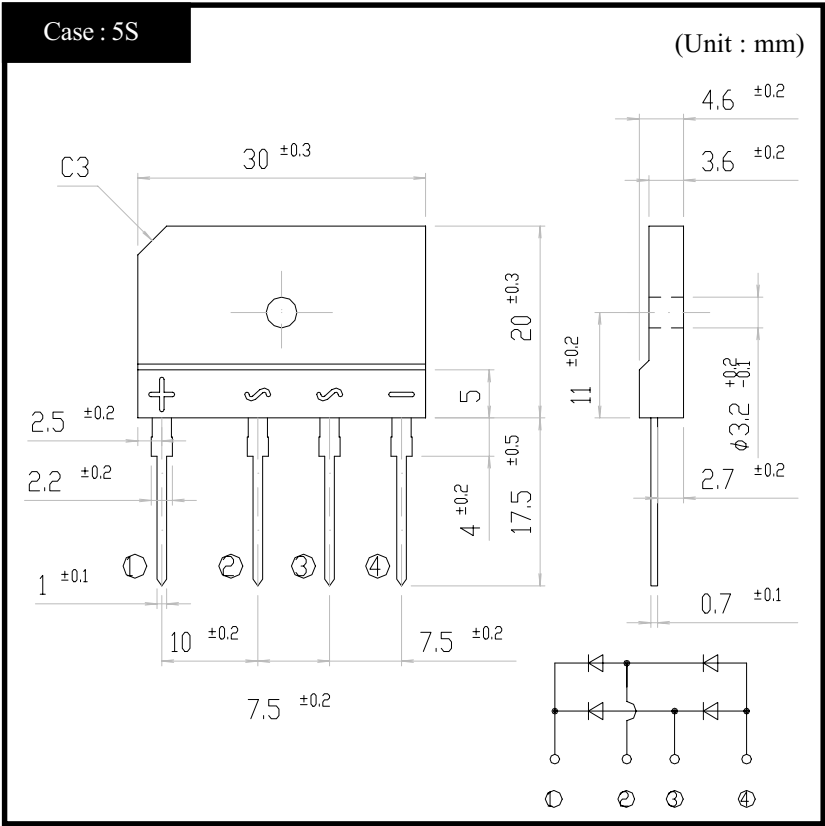


LN25XB60

600V 25A

OUTLINE DIMENSIONS



RATINGS

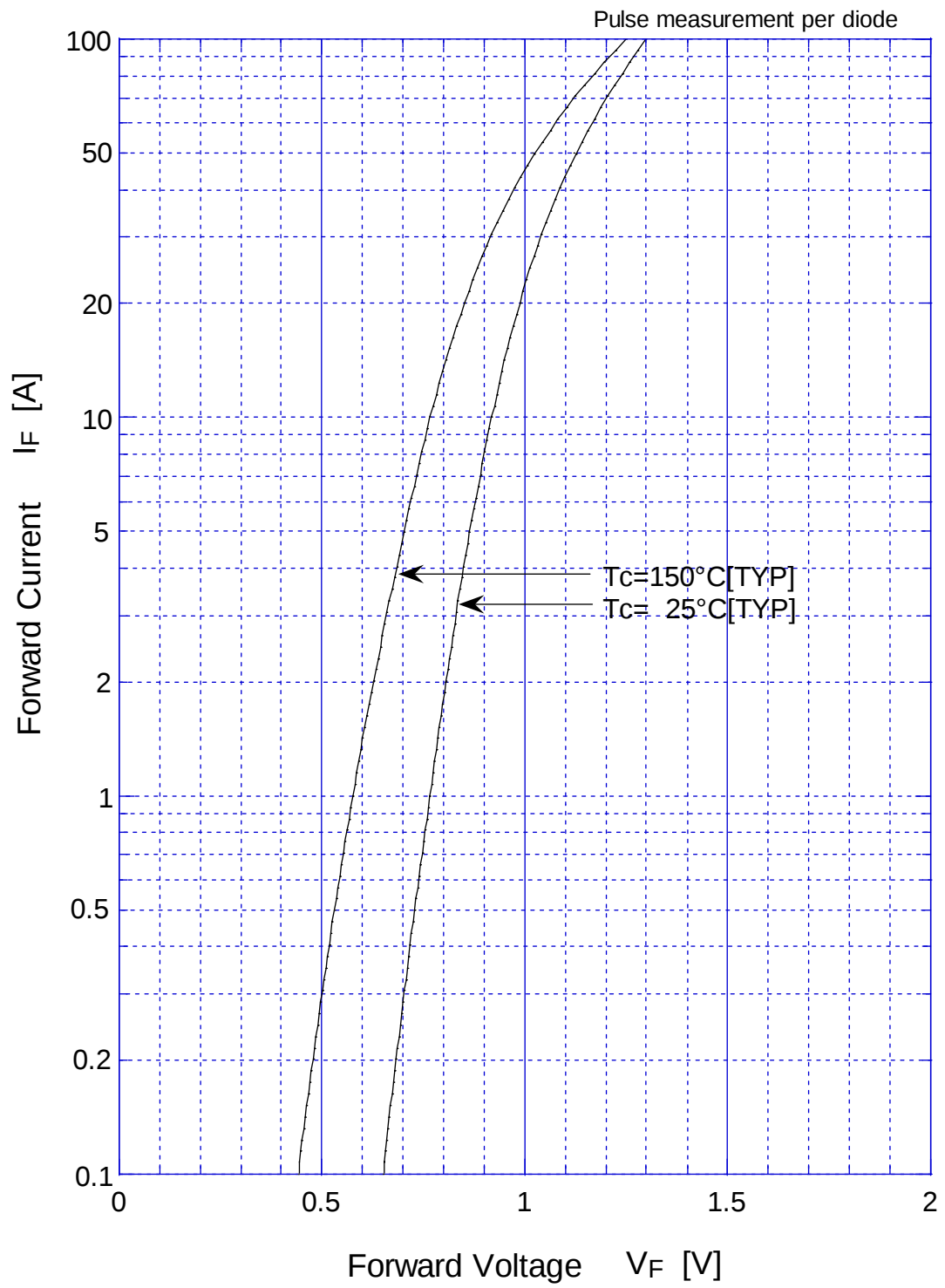
Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		600	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, With heatsink, Tc=85°C	25	A
	IO	50Hz sine wave, R-load, Without heatsink, Ta=25°C	3.4	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	350	A
Current Squared Time	I²t	1ms≤t<10ms, per diode, Tj=25°C	300	A²s
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

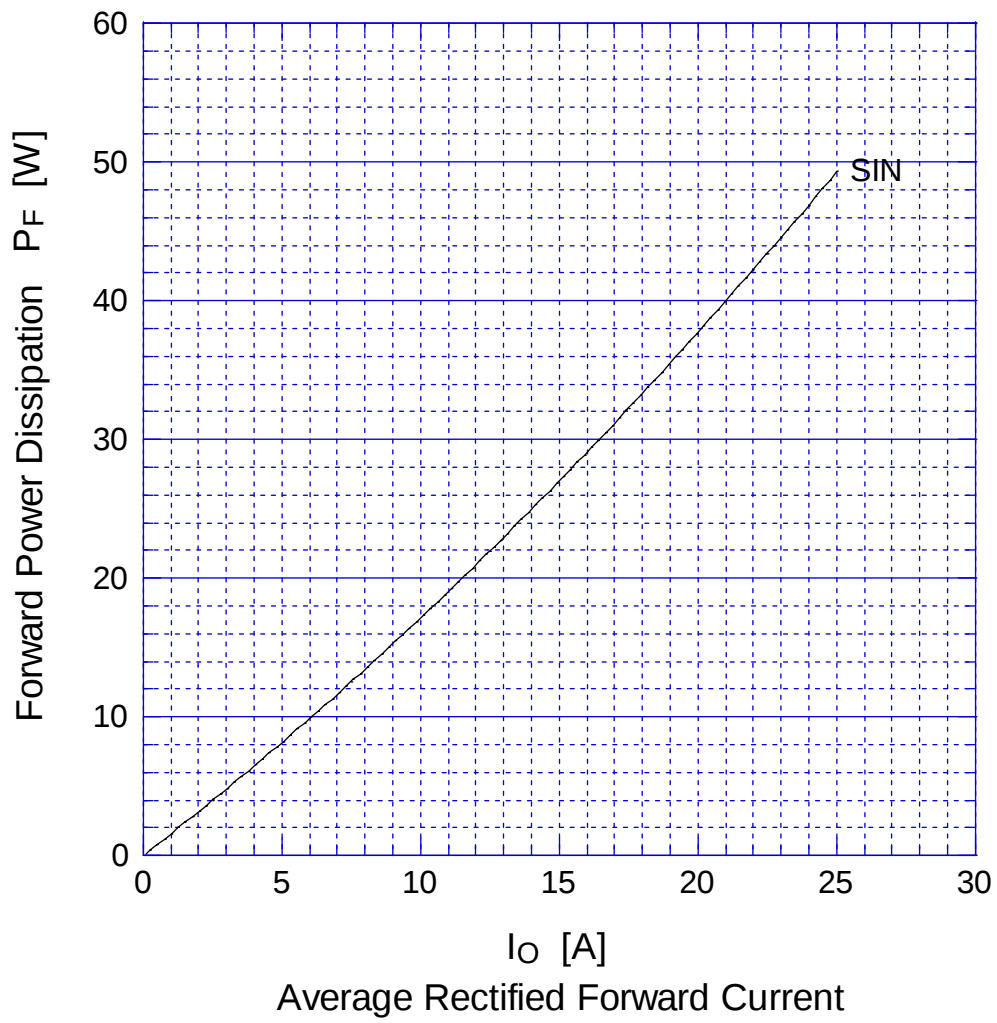
Electrical Characteristics (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=12.5A, Pulse measurement, Rating of per diode	Max 1.05	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max 10	μ A
Reverse Recovery Time	trr	IF=0.1A, IR=0.1A, Rating of per diode	Max 5	μ s
Thermal Resistance	θ jc	Junction to case, With heatsink	Max 1.3	°C/W
	θ jl	junction to lead, Without heatsink	Max 5	
	θ ja	junction to ambient, Without heatsink	Max 23	

LN25XB60 Forward Voltage

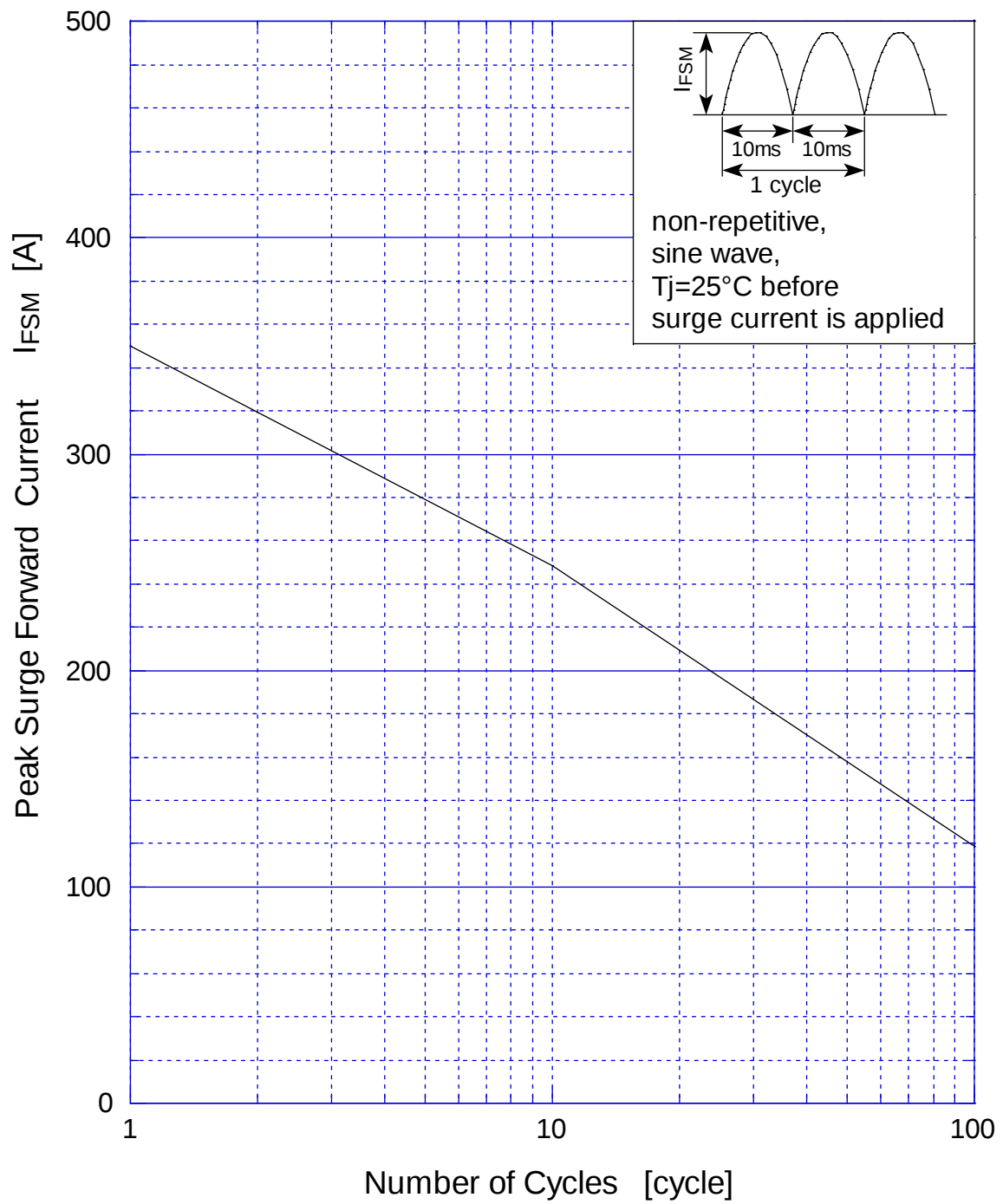


LN25XB60 Forward Power Dissipation



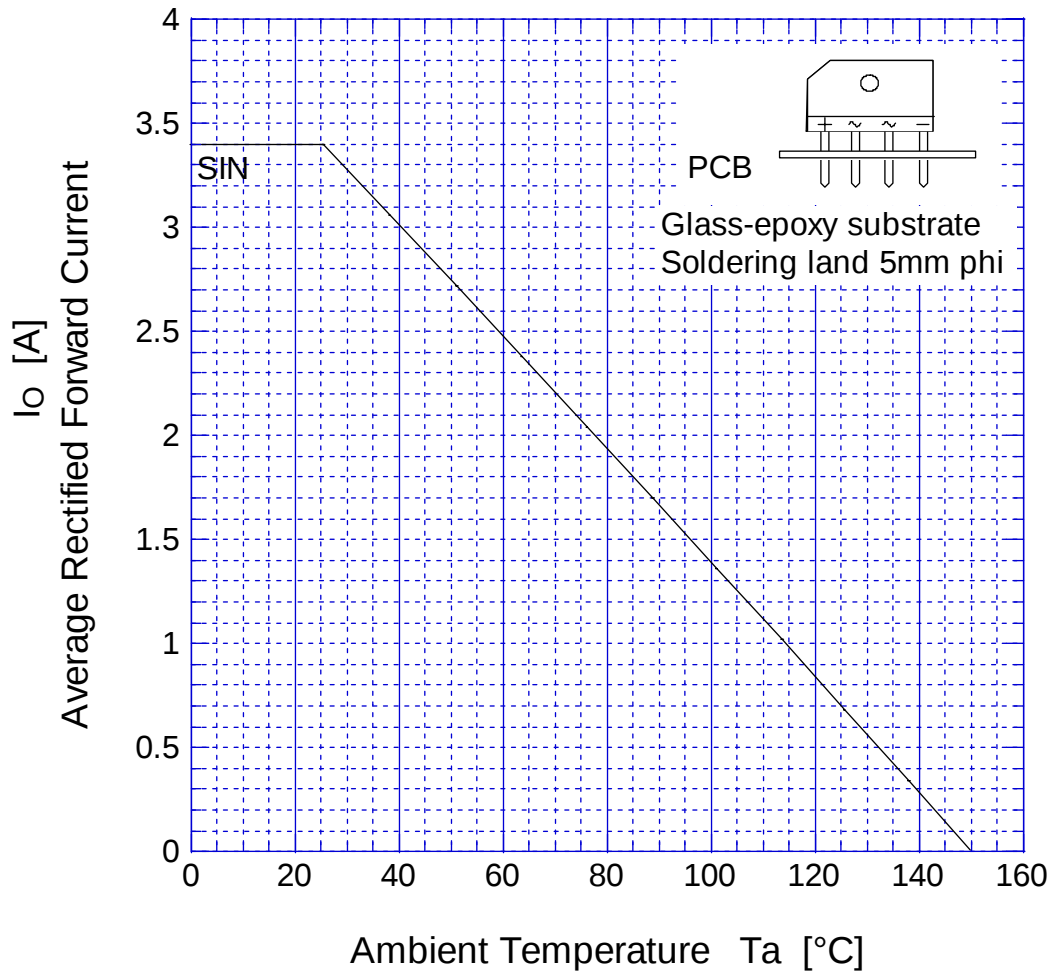
$T_j = 150^\circ\text{C}$

LN25XB60 Peak Surge Forward Capability



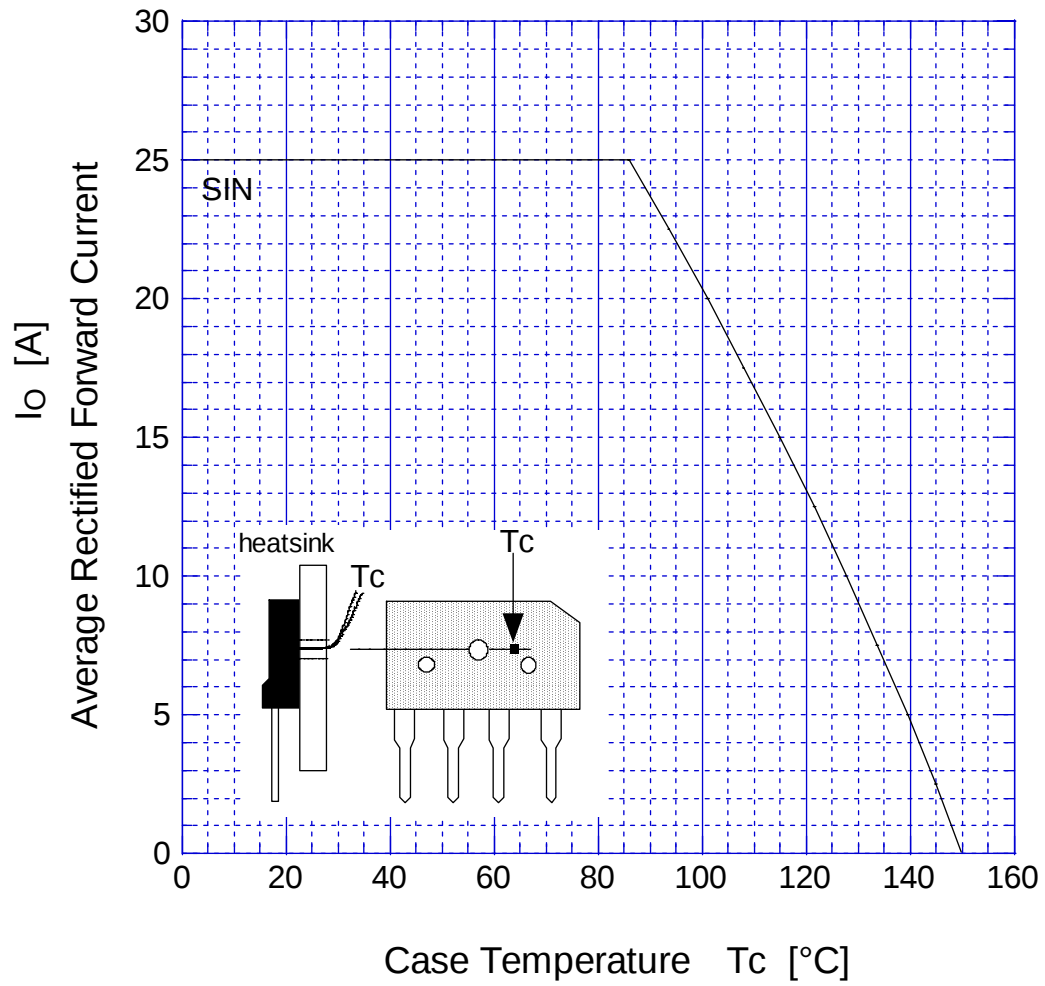
LN25XB60

Derating Curve



$$V_R = V_{RM}$$

LN25XB60 Derating Curve



$$V_R = V_{RM}$$