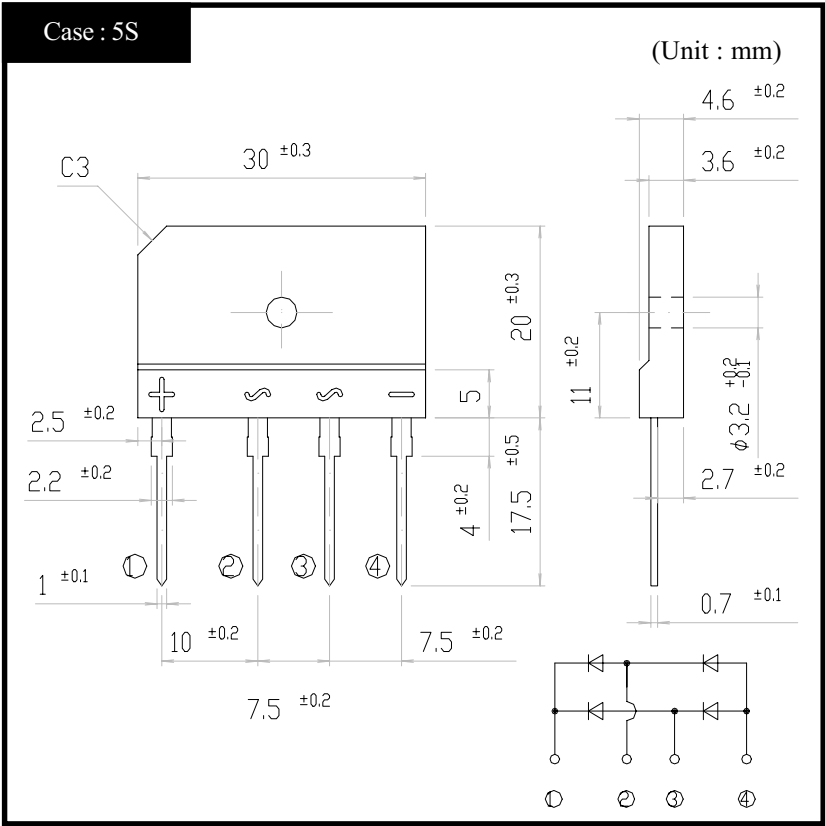


LN15XB60

600V 15A

OUTLINE DIMENSIONS



RATINGS

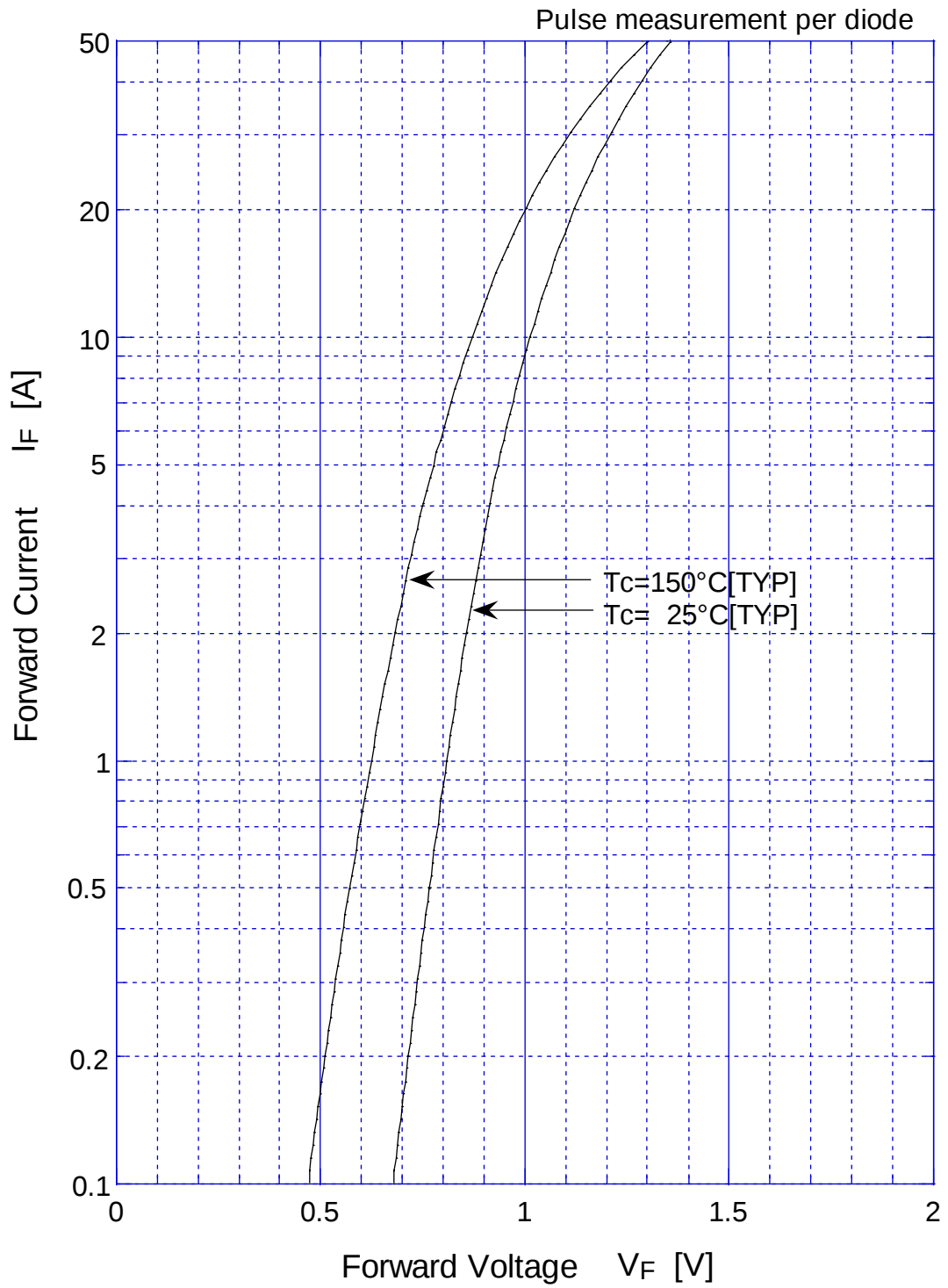
Absolute Maximum Ratings (Unless otherwise specified, T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, With heatsink, T _c =100°C	15	A
	I _O	50Hz sine wave, R-load, Without heatsink, T _a =25°C	3.0	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, T _j =25°C	200	A
Current Squared Time	I ² t	1ms ≤ t < 10ms, per diode, T _j =25°C	90	A ² s
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2.5	kV
Mounting Torque	TOR	(Recommended torque : 0.5 N.m)	0.8	N.m

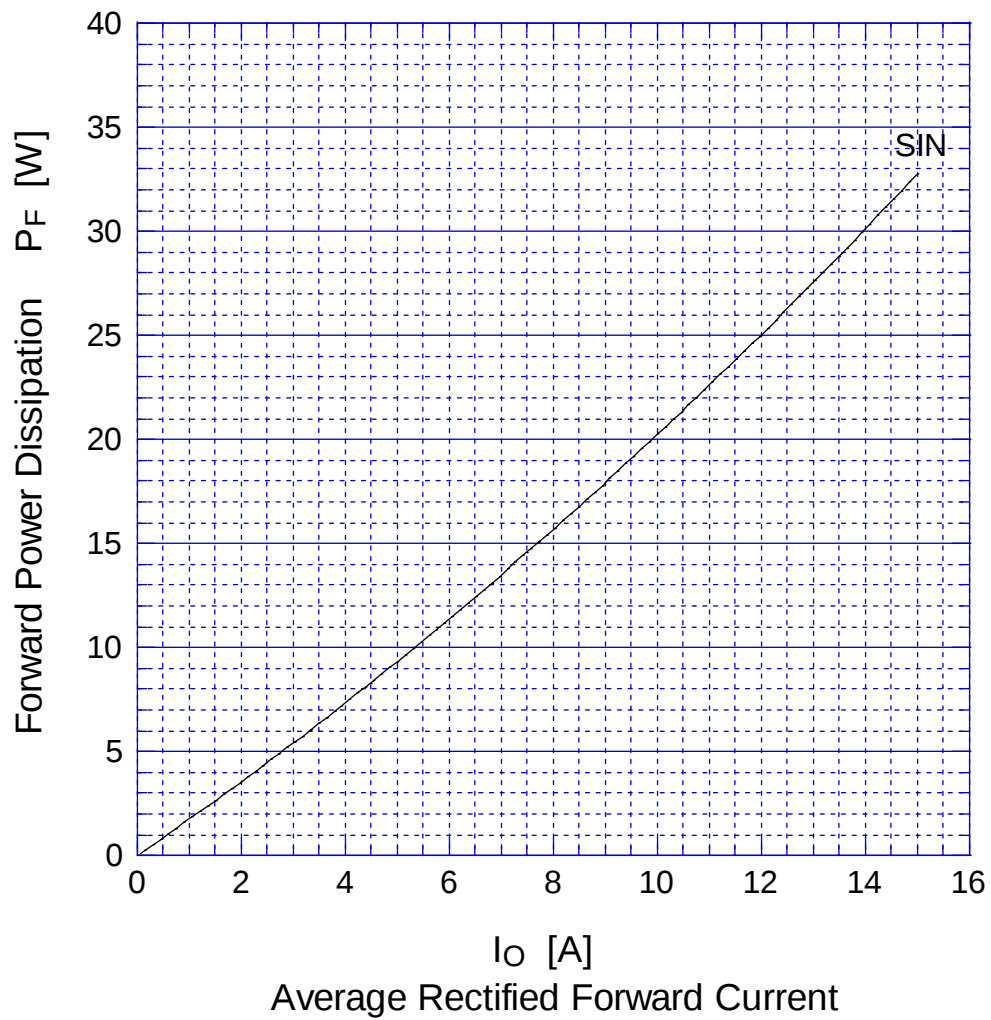
Electrical Characteristics (Unless otherwise specified, T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =7.5A, Pulse measurement, Rating of per diode	Max 1.1	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 5	μs
Thermal Resistance	θ _{jc}	Junction to case, With heatsink	Max 1.5	°C/W
	θ _{jl}	Junction to lead, Without heatsink	Max 5	
	θ _{ja}	Junction to ambient, Without heatsink	Max 23	

LN15XB60 Forward Voltage

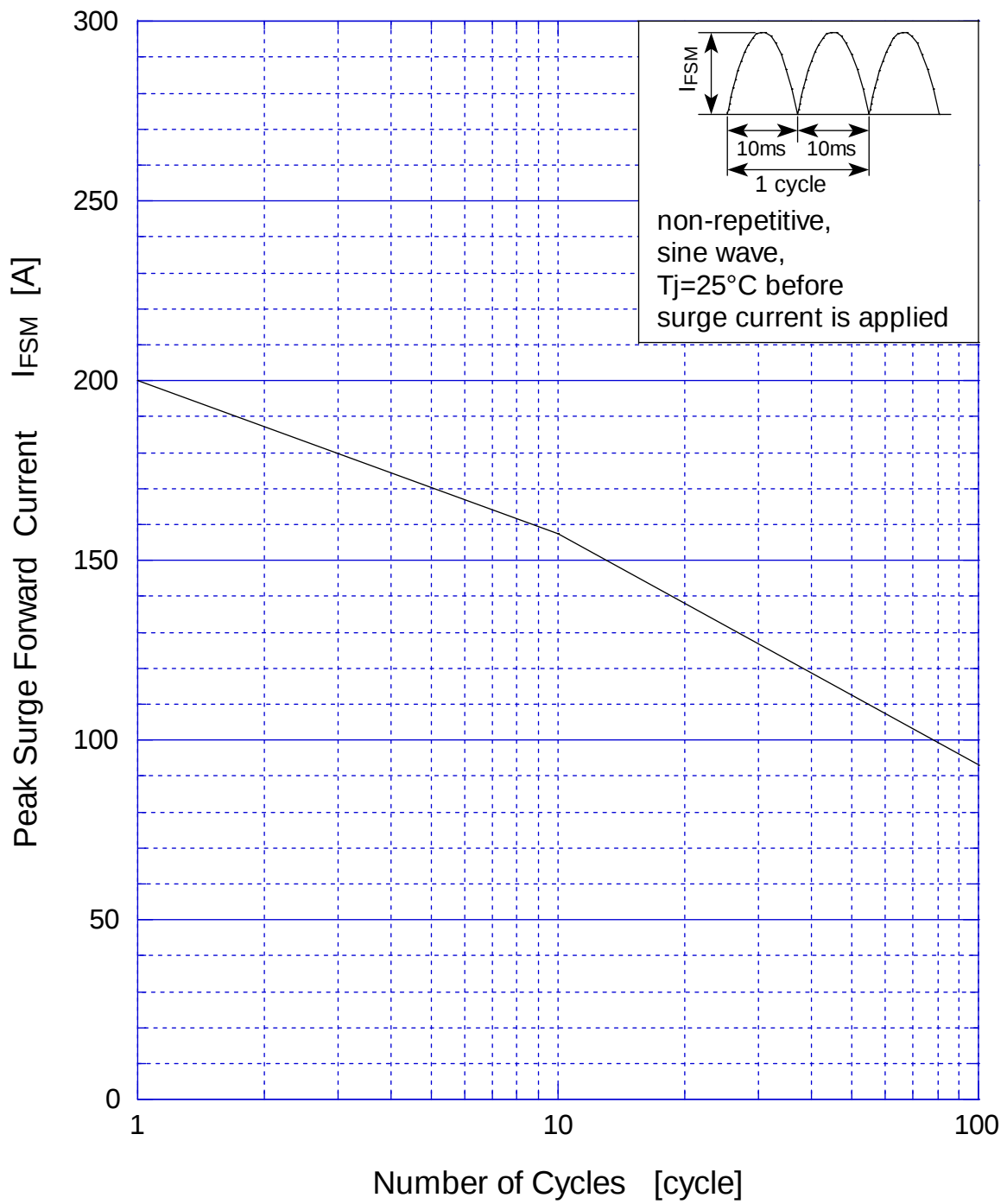


LN15XB60 Forward Power Dissipation



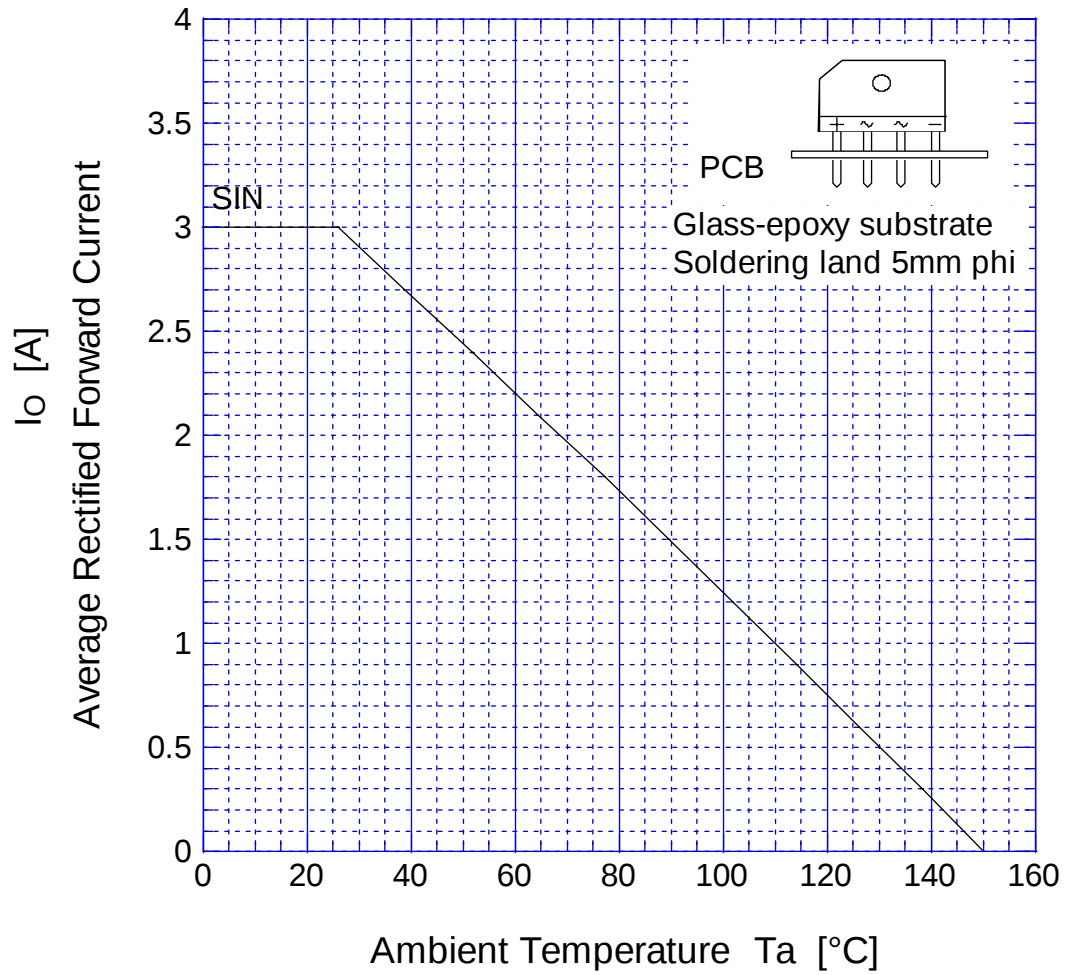
$T_j = 150^\circ\text{C}$

LN15XB60 Peak Surge Forward Capability

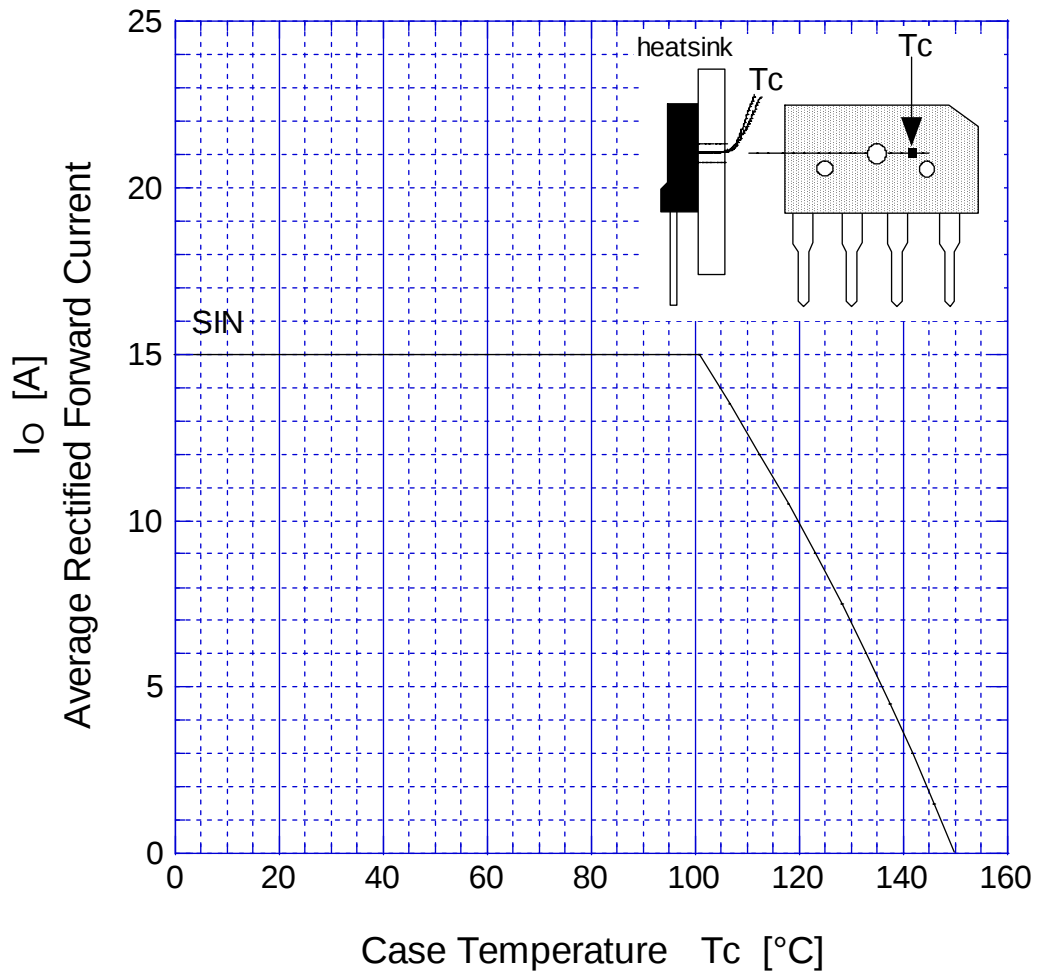


LN15XB60

Derating Curve



$$V_R = V_{RM}$$



$$V_R = V_{RM}$$