

SHINDENGEN

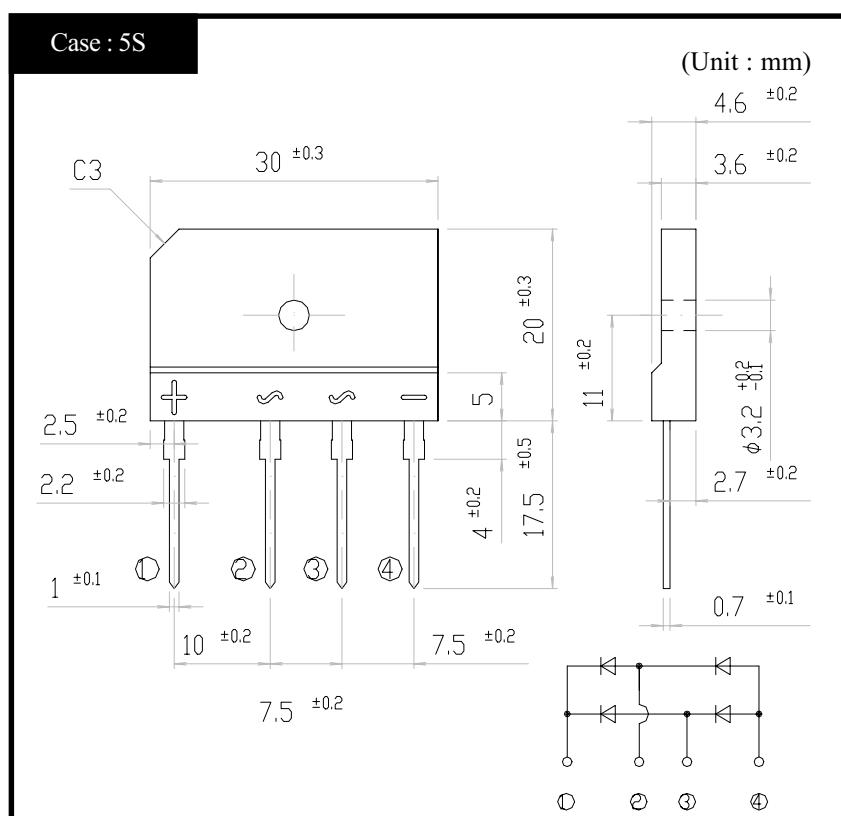
General Purpose Rectifiers

Low Noise Bridges

LN15XB60H

600V 25A

OUTLINE DIMENSIONS



RATINGS

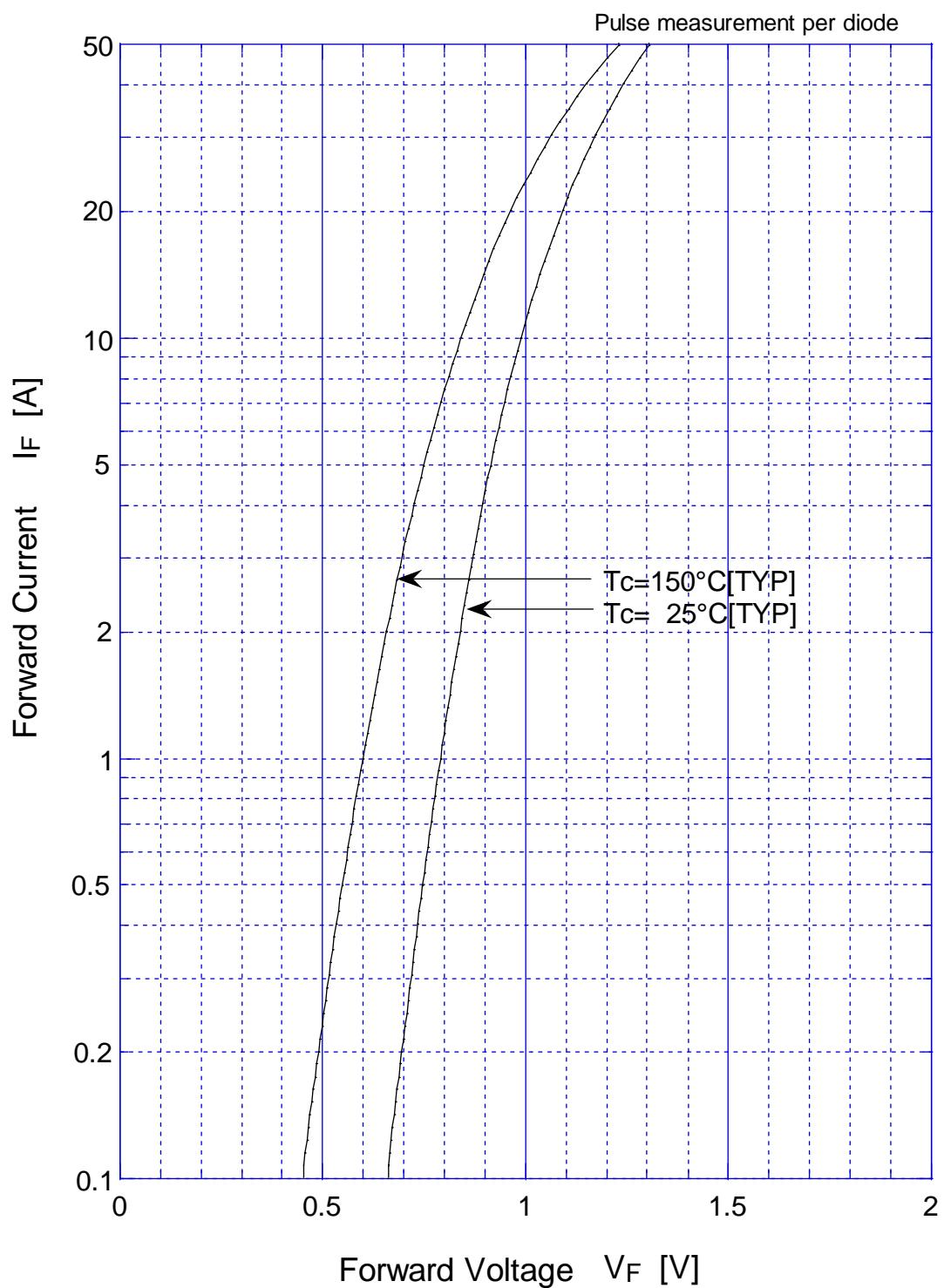
Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, With heatsink, Tc=106°C	15	A
	I _O	50Hz sine wave, R-load, Without heatsink, Ta=28°C	3.3	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	290	A
Current Squared Time	I ² t	1ms ≤ t < 10ms, per diode, Tj=25°C	200	A ² s
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2.5	kV
Mounting Torque	T _{OR}	(Recommended torque : 0.5 N.m)	0.8	N.m

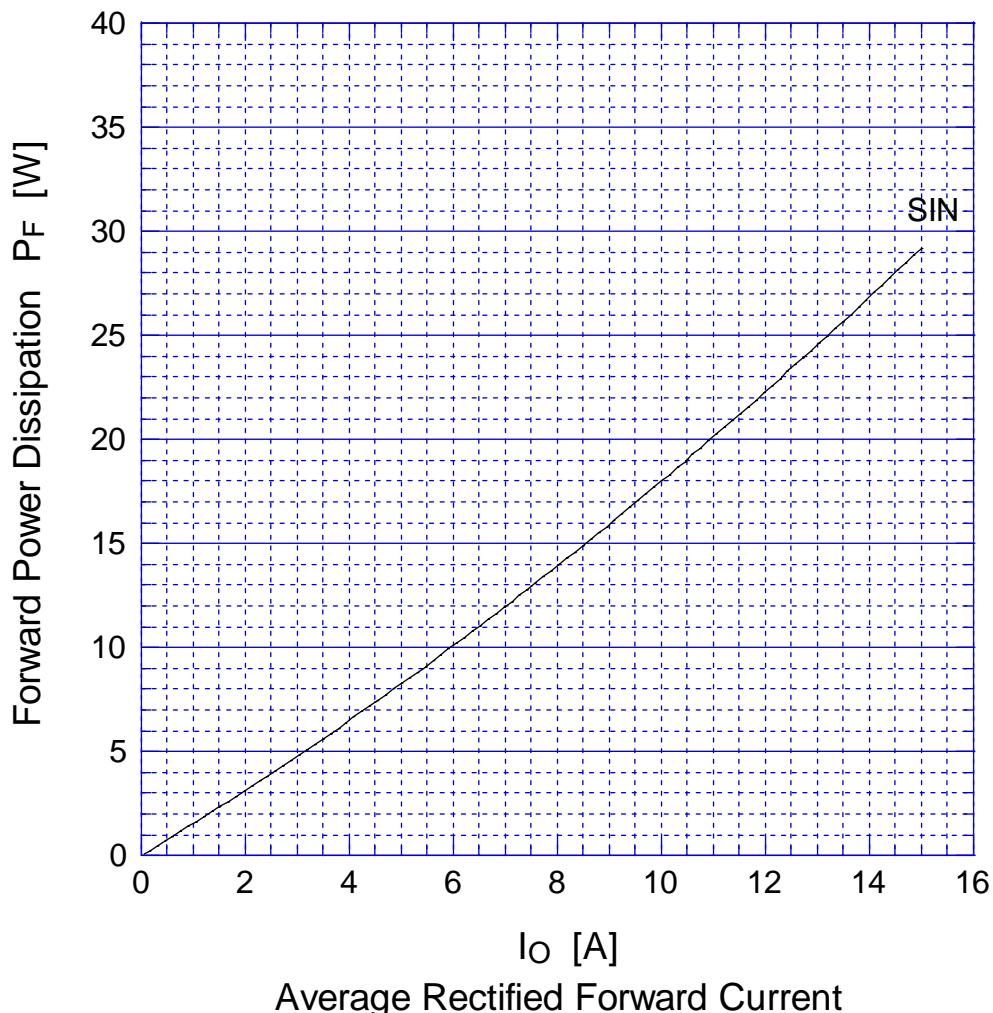
Electrical Characteristics (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =7.5A, 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	μ A
Reverse Recovery Time	t _{rr}	I _F =0.1A, I _R =0.1A, Rating of per diode	Max 5	μ s
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	

LN15XB60H Forward Voltage

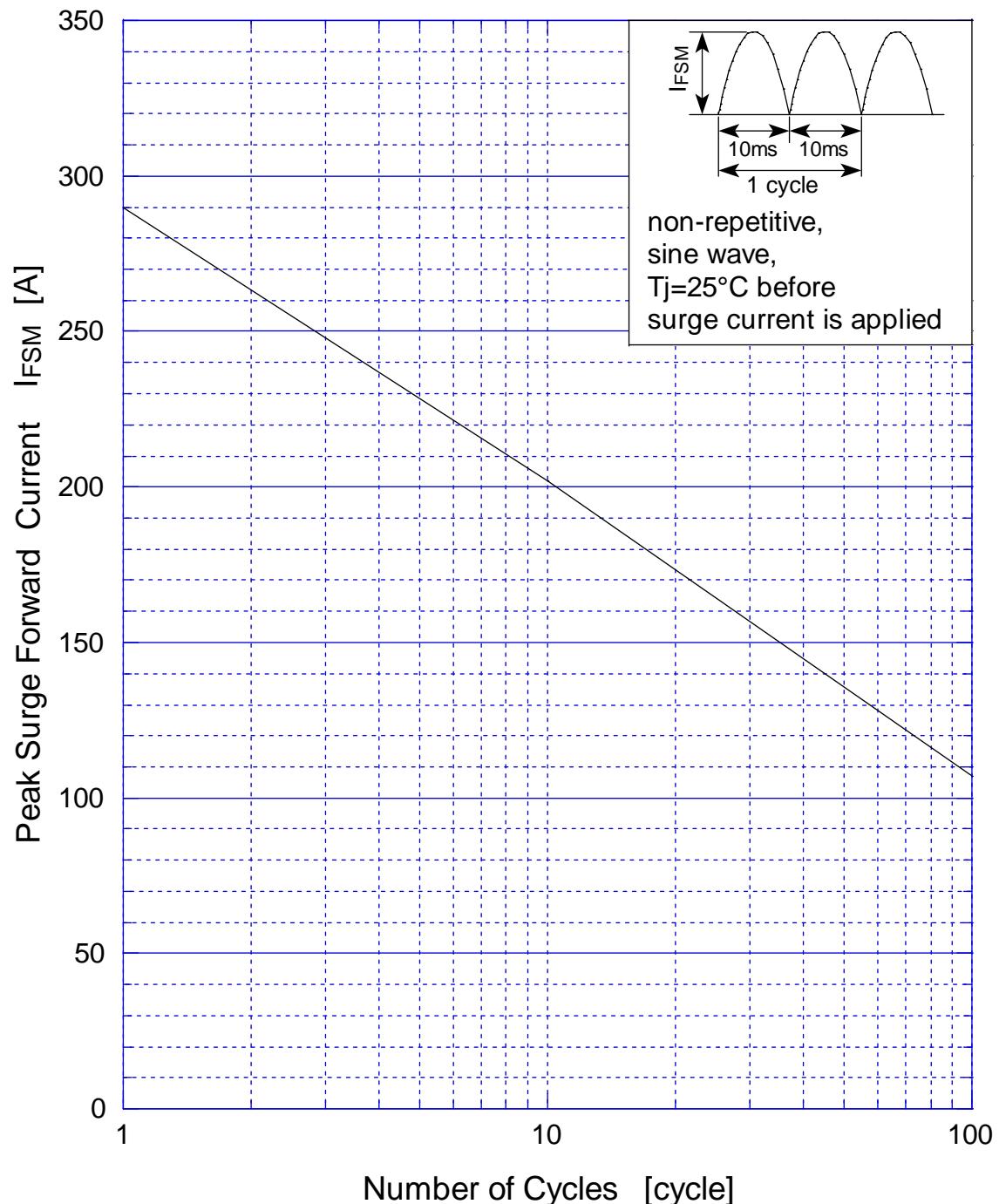


LN15XB60H Forward Power Dissipation

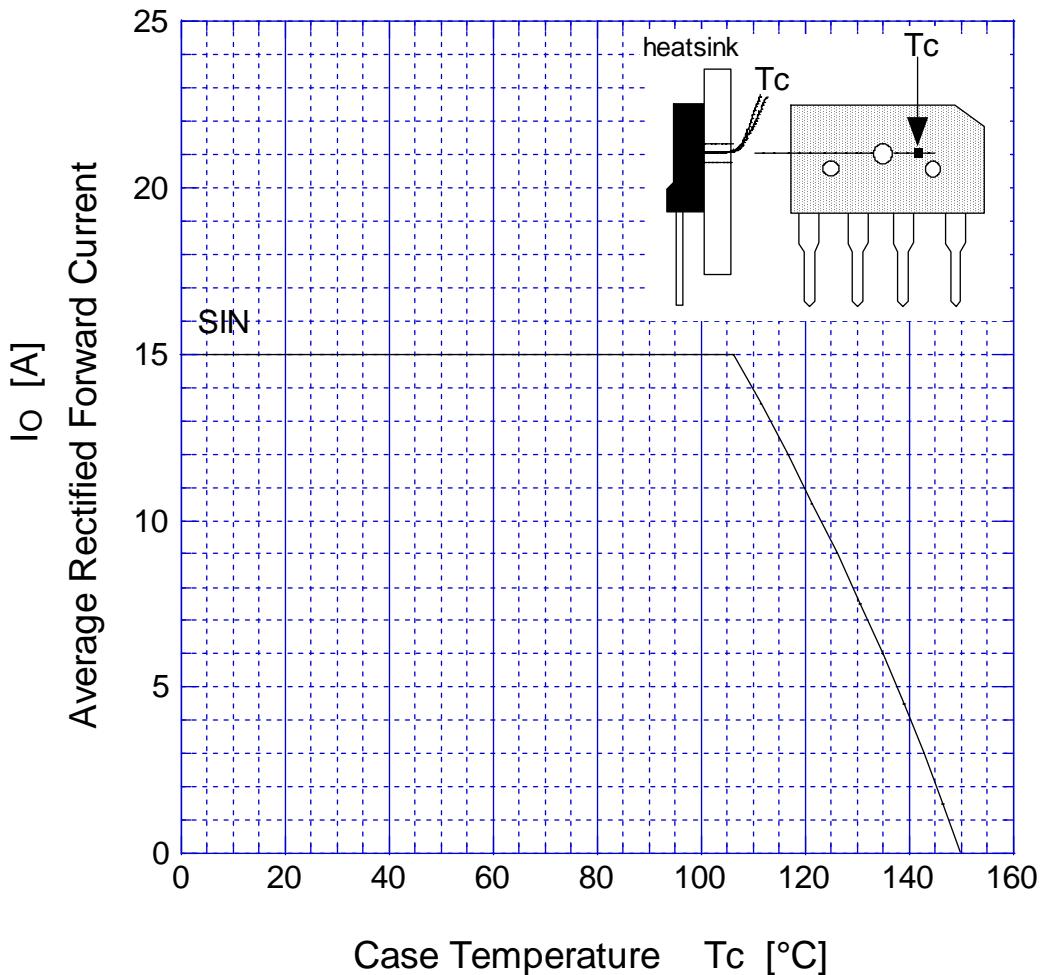


$T_j = 150^\circ\text{C}$

LN15XB60H Peak Surge Forward Capability

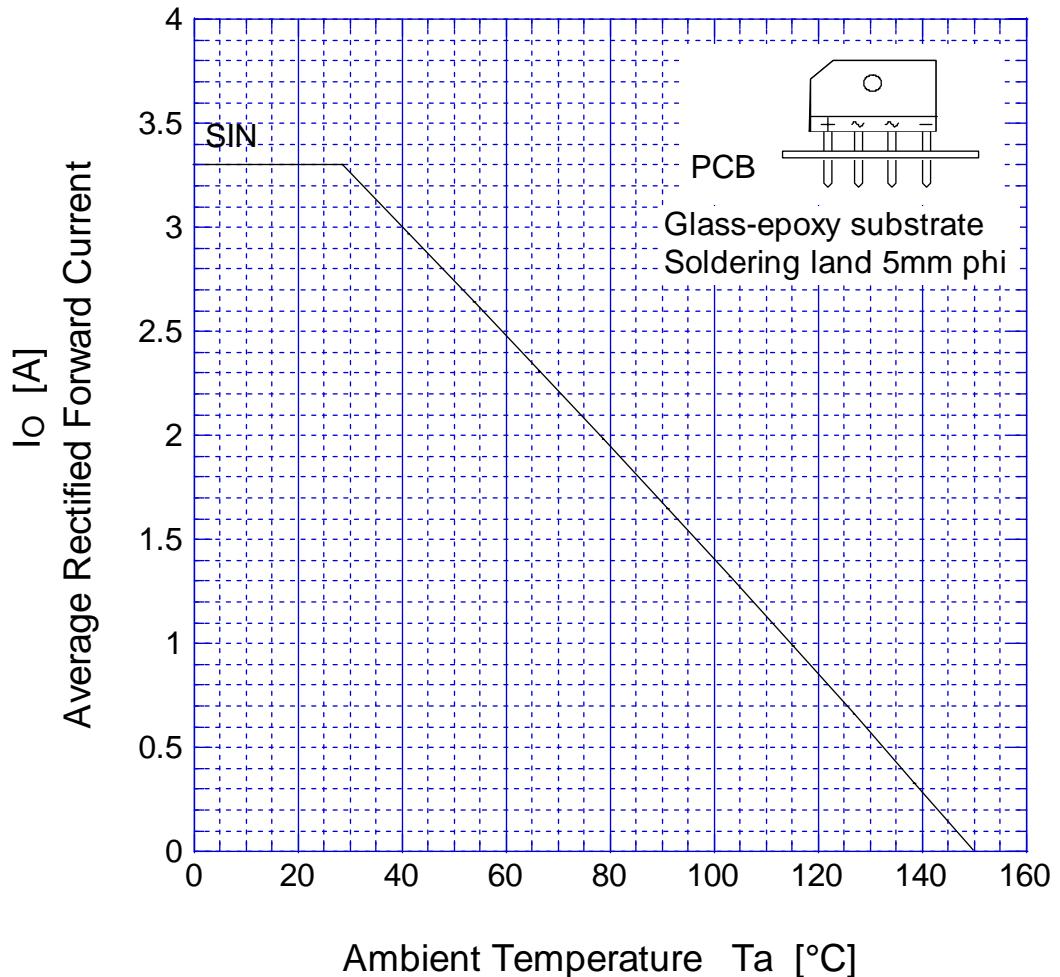


LN15XB60H Derating Curve



$$V_R = V_{RM}$$

LN15XB60H Derating Curve



$$V_R = V_{RM}$$