

SHINDENGEN

General Purpose Rectifiers

Low Noise Bridges

LN4SB60

600V 4A

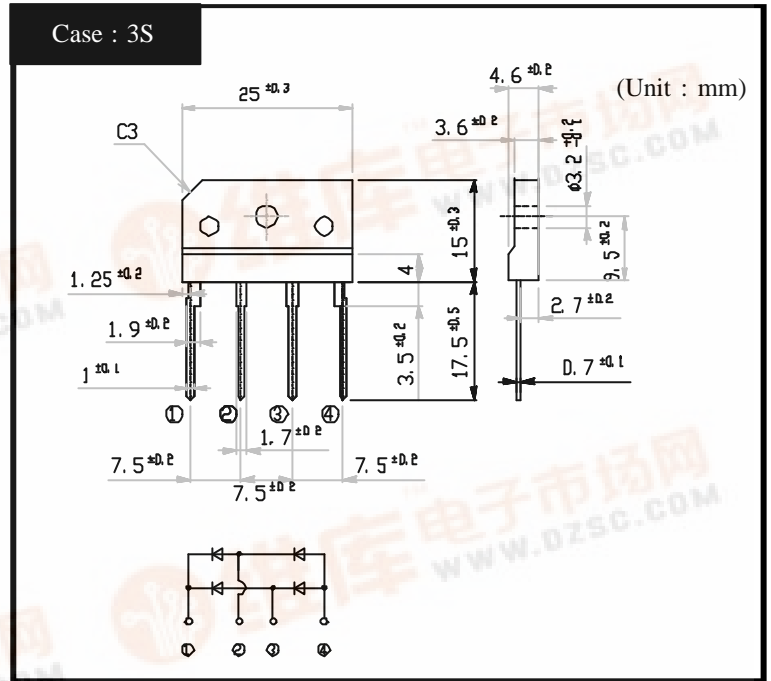
FEATURES

- Low noise
- SIL Package
- High IFSM

APPLICATION

- Switching power supply
- Home (Electrical) Appliances
- Office Equipment, Telecommunication,
- Factory Automation

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified $T_c=25$)

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 $T_c=111$	4.0	A
		50Hz sine wave, R-load Without heatsink $T_a=25$	2.5	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25$	150	A
Repetitive Peak Surge Reverse Power	P_{RRSM}	Pulse width 10 μ s, Rating of per diode, $T_j=25$	2	kW
Current Squared Time	I^2t	1ms $t < 10$ ms $T_j=25$	50	A^2s
Dielectric Strength	V_{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque 0.5N·m)	0.8	N·m

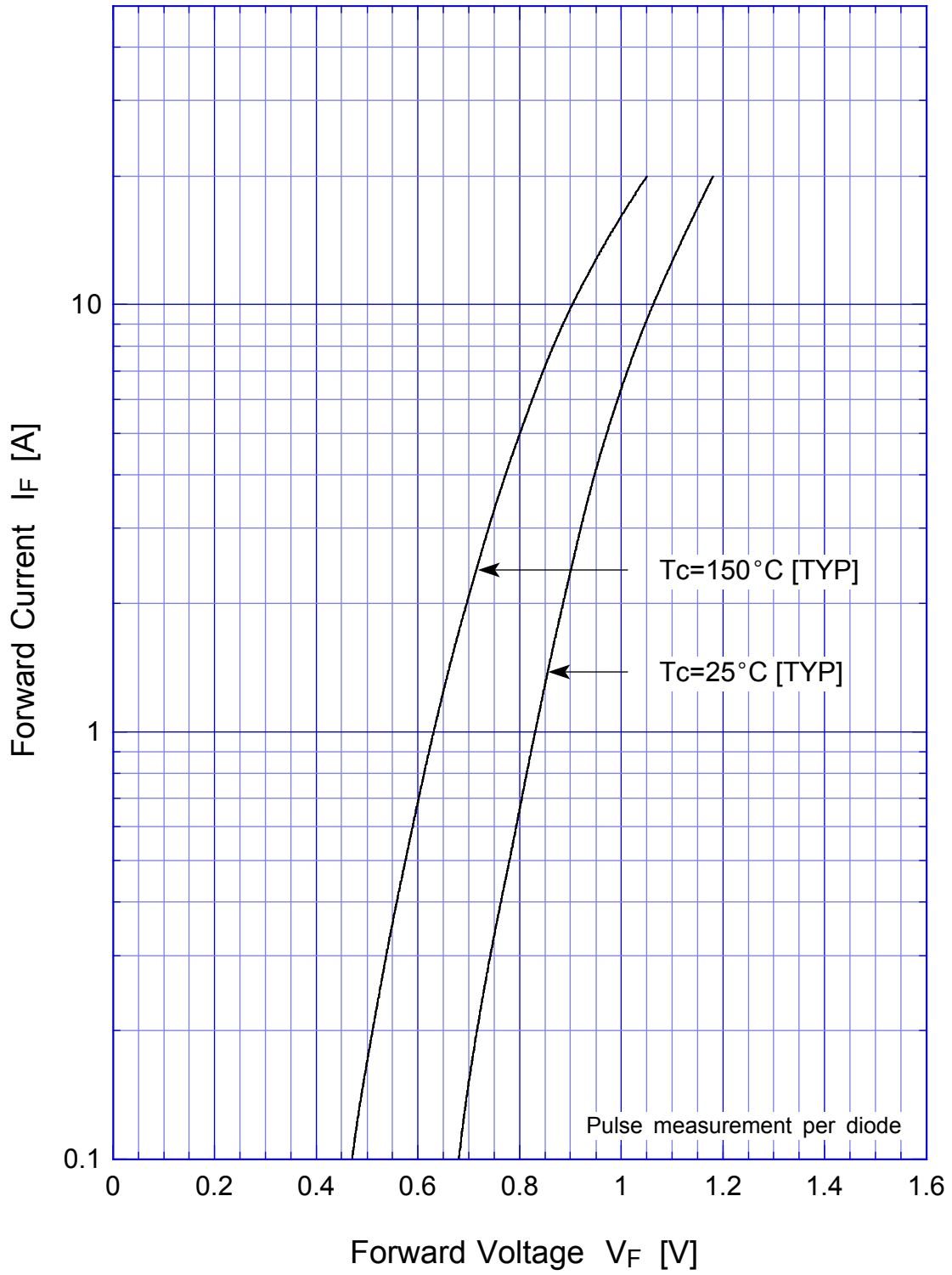
Electrical Characteristics (If not specified $T_c=25$)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=2A$, Pulse measurement, Rating of per diode	Max. 0.95	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. 5.5	
	θ_{jl}	junction to lead Without heatsink	Max. 6	/W
	θ_{ja}	junction to ambient Without heatsink	Max. 30	

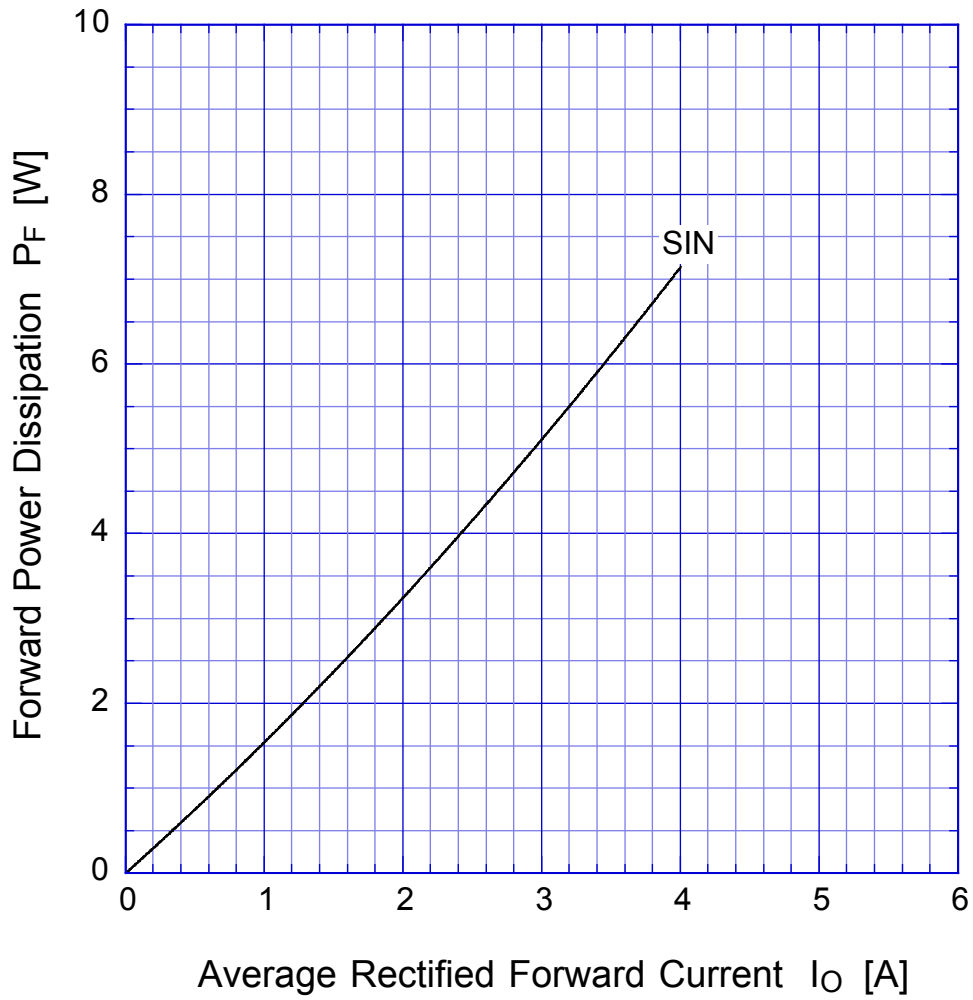


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Forward Voltage



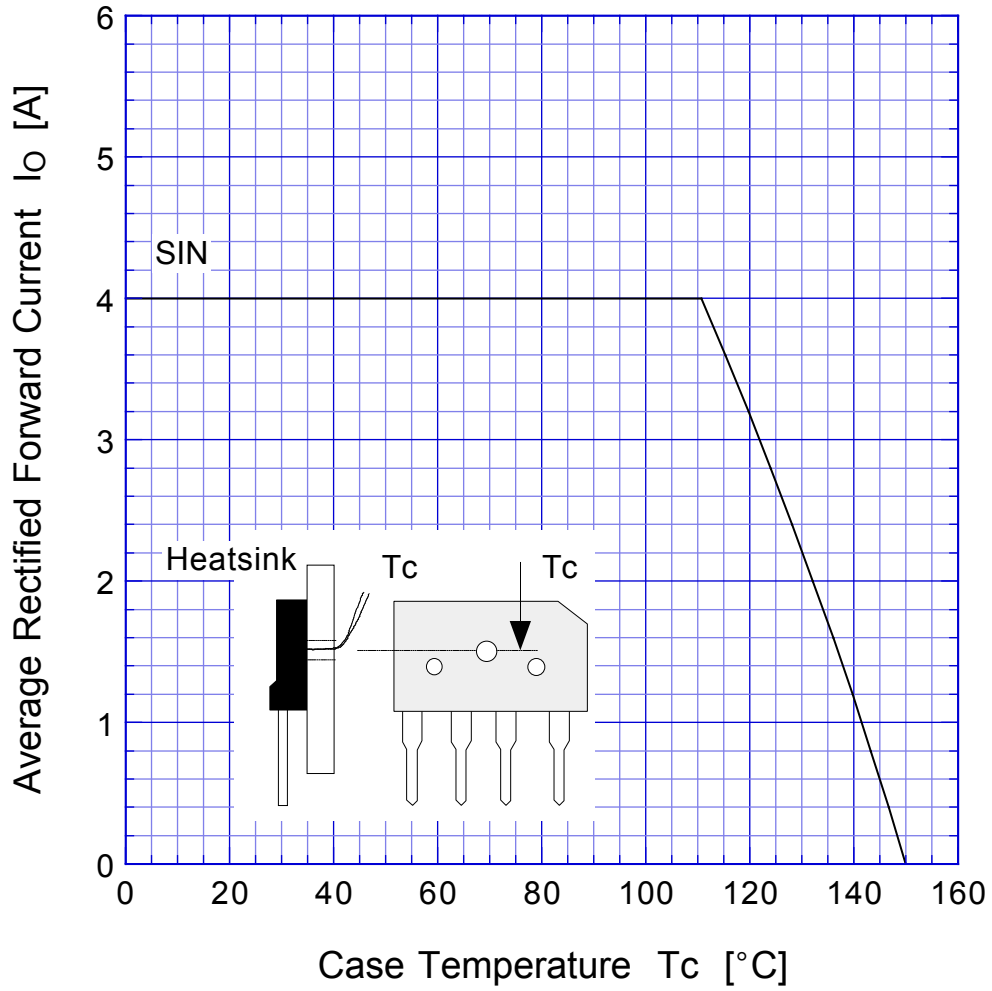
LN4SB60 Forward Power Dissipation



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

LN4SB60

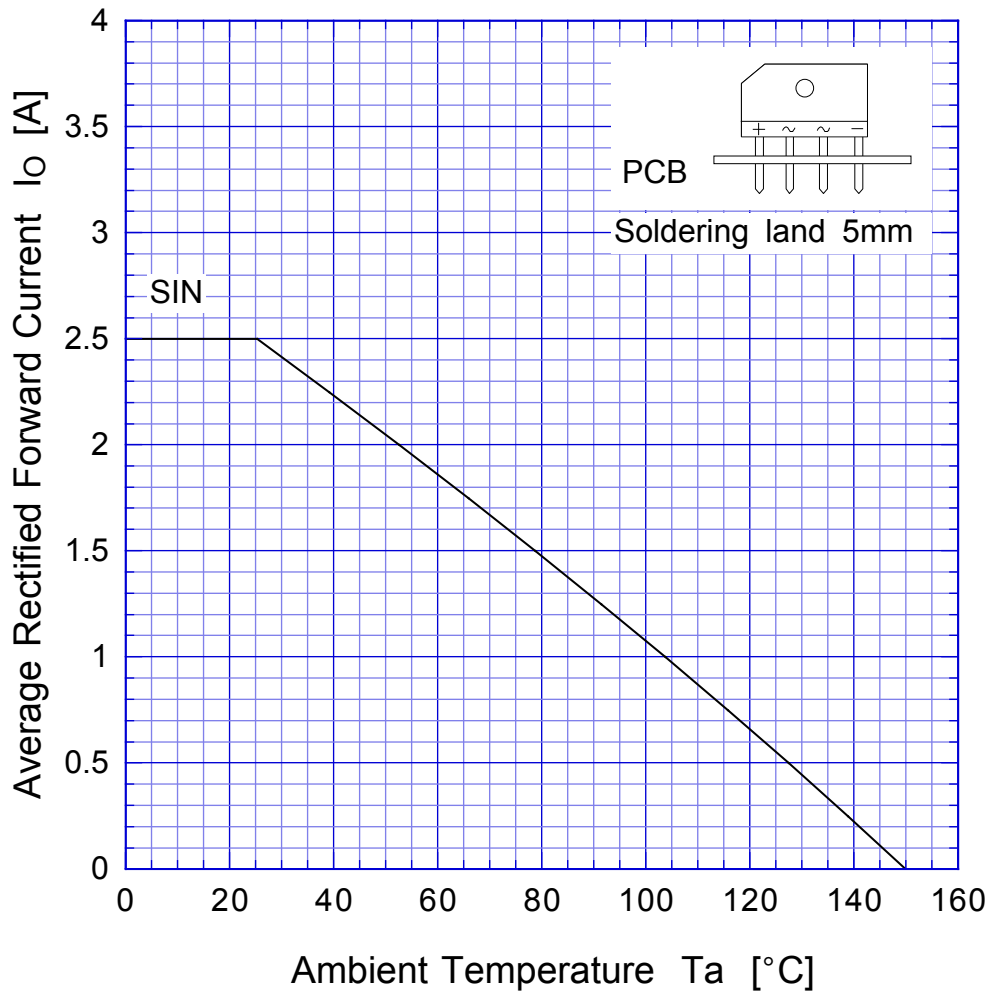
Derating Curve



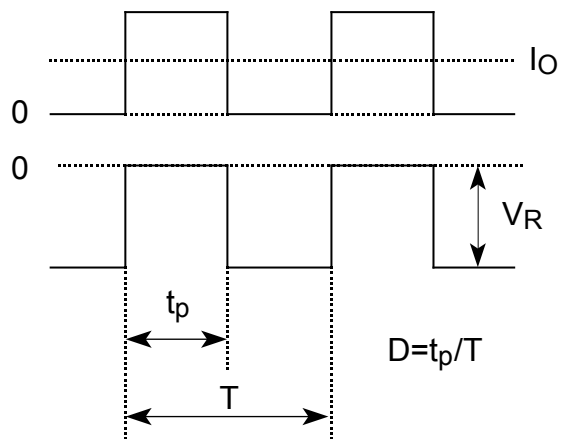
Sine wave
R-load
with heatsink

LN4SB60

Derating Curve



$V_R = 600V$
Sine wave
R-load
Free in air



LN4SB60

Peak Surge Forward Capability

