

# SHINDENGEN

## General Purpose Rectifiers

## Low Noise Bridges

# LN6SB60

## 600V 6A

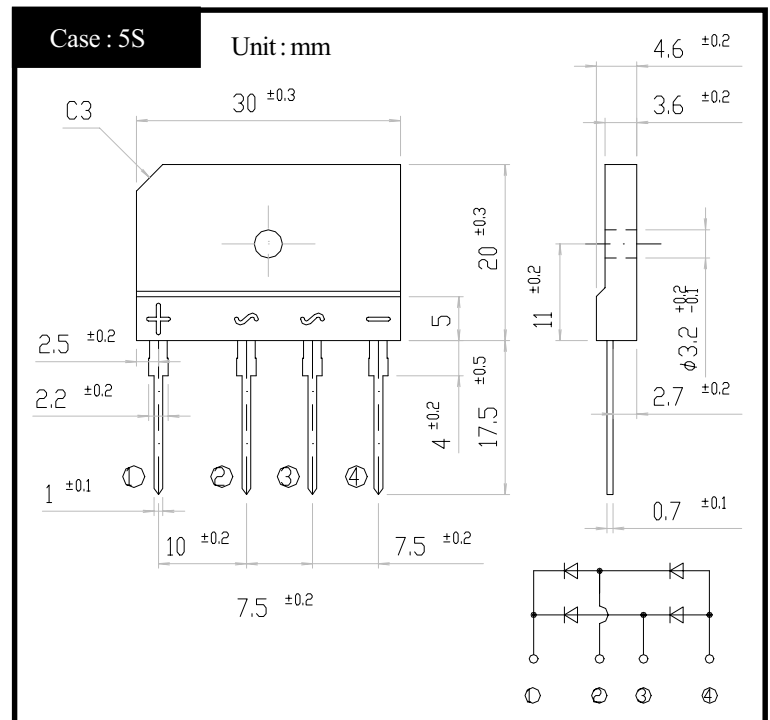
### FEATURES

- Low noise
- SIL Package
- High IFSM
- UL recognized  
(UL File No. E142422)

### APPLICATION

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

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings (If not specified Tc=25°C)

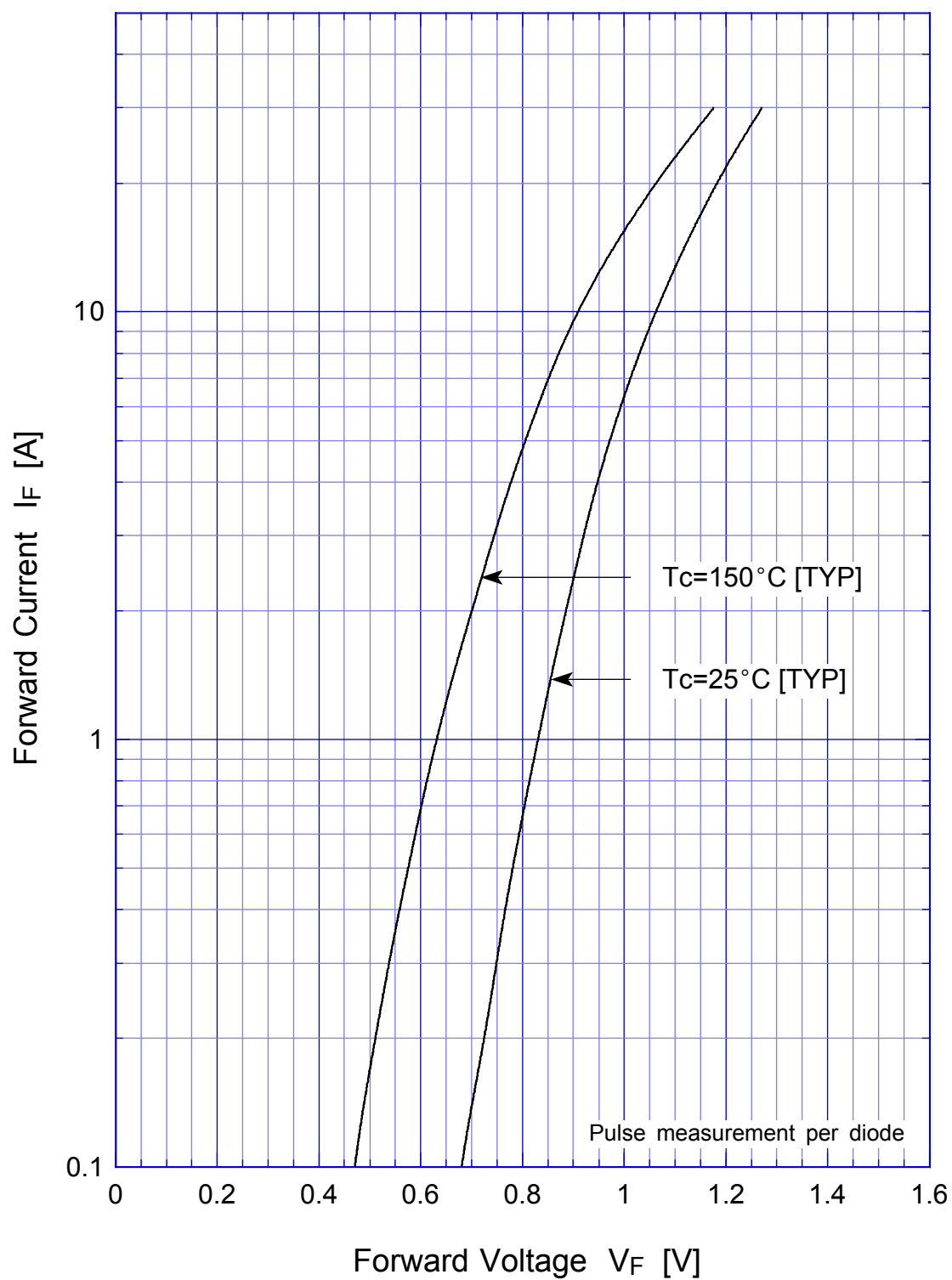
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-40~150	°C
Operating Junction Temperature	T <sub>j</sub>		150	°C
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load With heatsink T <sub>c</sub> =111°C	6.0	A
		50Hz sine wave, R-load Without heatsink T <sub>a</sub> =25°C	2.8	
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1cycle peak value, T <sub>j</sub> =25°C	170	A
Current Squared Time	I <sup>2</sup> <sub>t</sub>	1ms ≤ t < 10ms T <sub>j</sub> =25°C	50	A <sup>2</sup> s
Dielectric Strength	V <sub>dis</sub>	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 Tc=25°C)

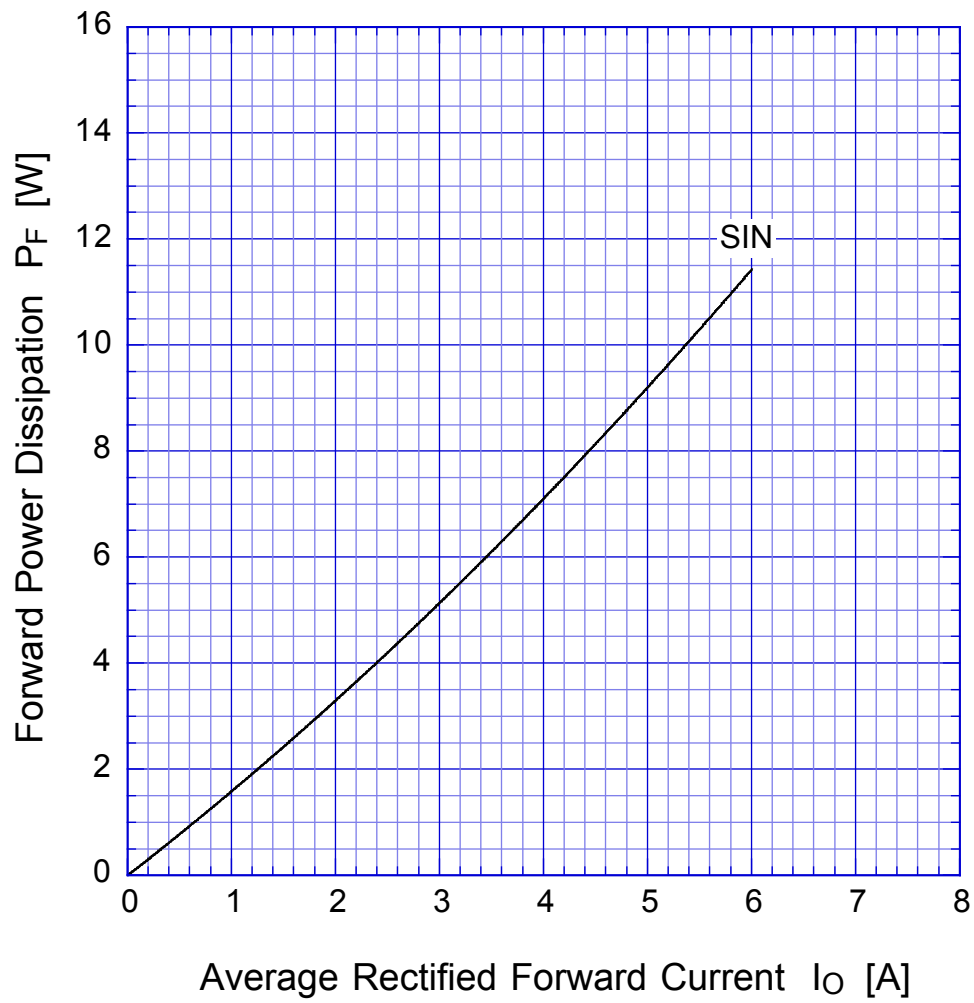
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =3A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	trr	I <sub>F</sub> =0.1A, I <sub>R</sub> =0.1A, Rating of per diode	Max.5	μs
Thermal Resistance	θ <sub>jc</sub>	junction to case With heatsink	Max.3.4	°C/W
	θ <sub>jl</sub>	junction to lead Without heatsink	Max.5	
	θ <sub>ja</sub>	junction to ambient Without heatsink	Max.26	
	θ <sub>cf</sub>	case to heatsink, Mounting torque=0.5N·m	Max.2	

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## Forward Voltage



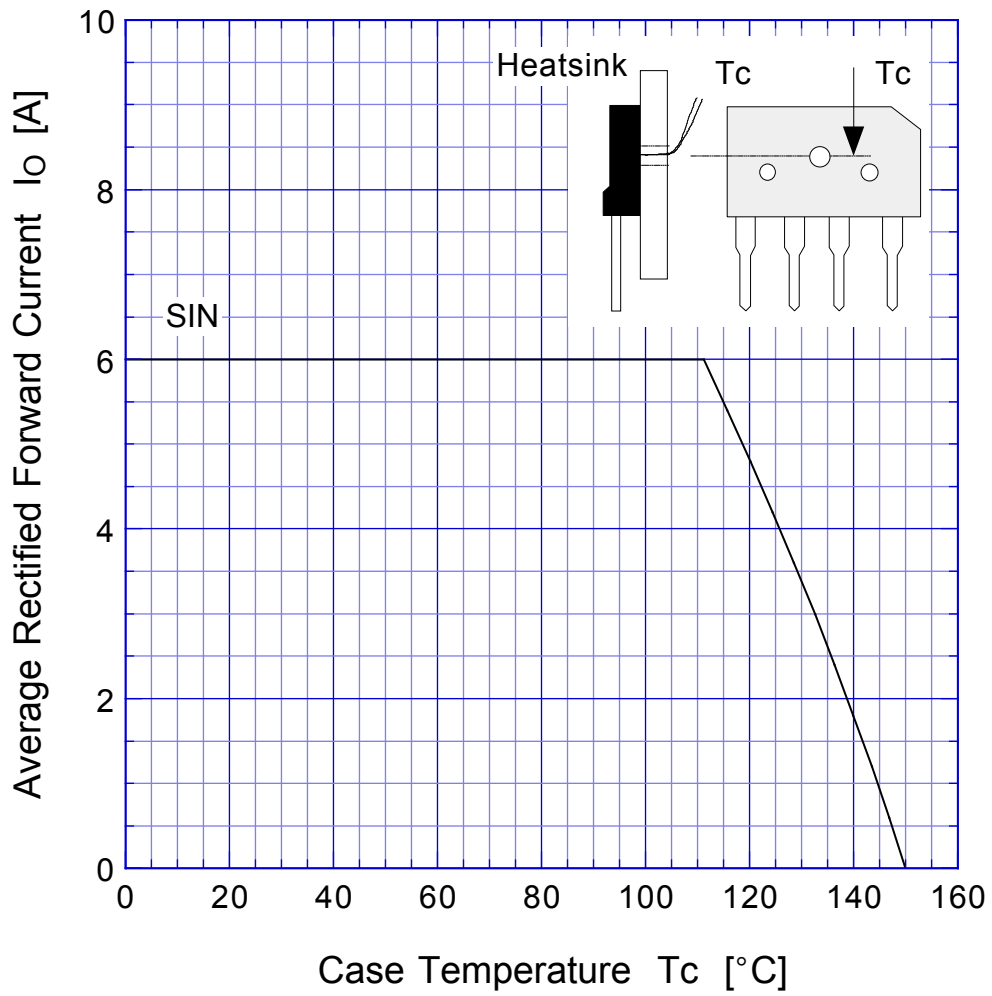
## LN6SB60 Forward Power Dissipation



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

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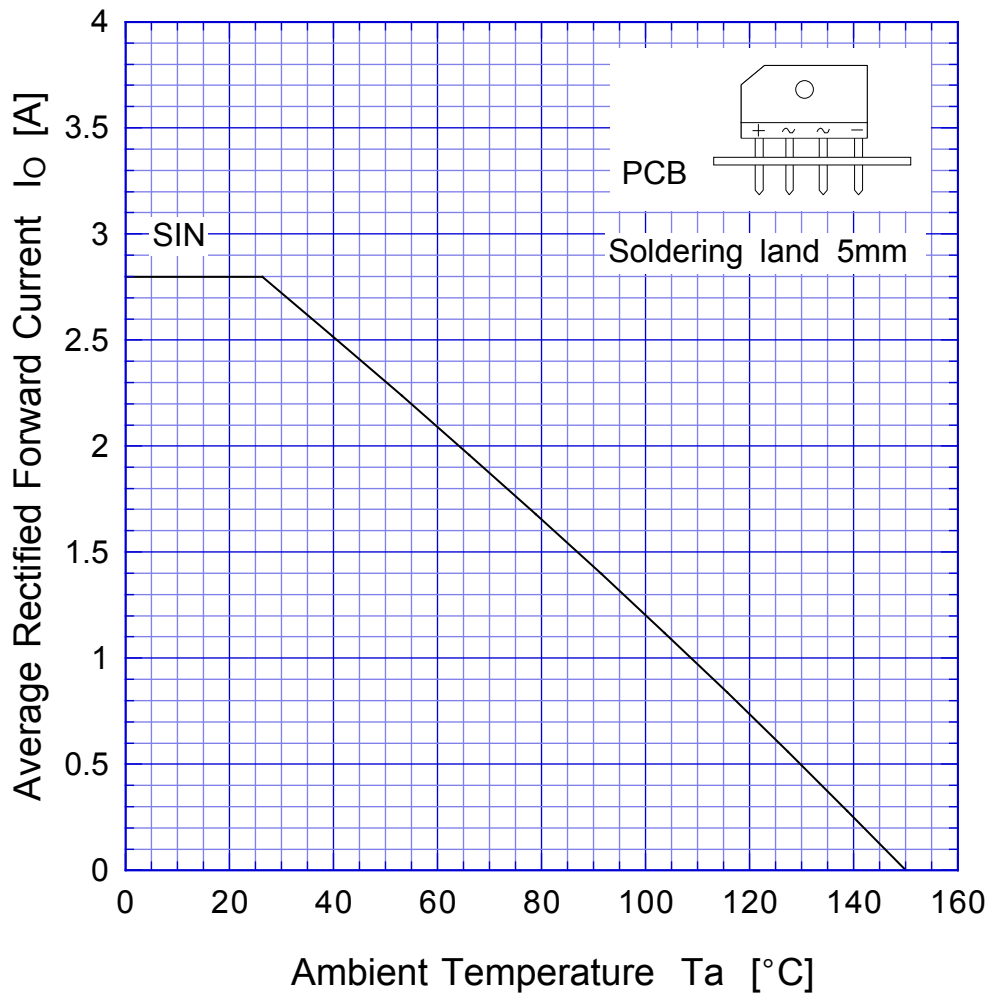
## Derating Curve



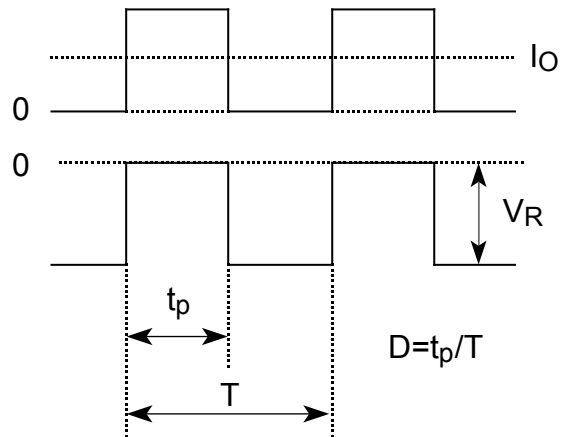
Sine wave  
R-load  
with heatsink

# LN6SB60

# Derating Curve



$V_R = 600V$



# LN6SB60

## Peak Surge Forward Capability

