SHINDENGEN

General Purpose Rectifiers

Low Noise Bridges

LN2SB60

600V 1.6A

FEATURES

- Low noise
- SIL package
- Applicable to Automatic Insertion

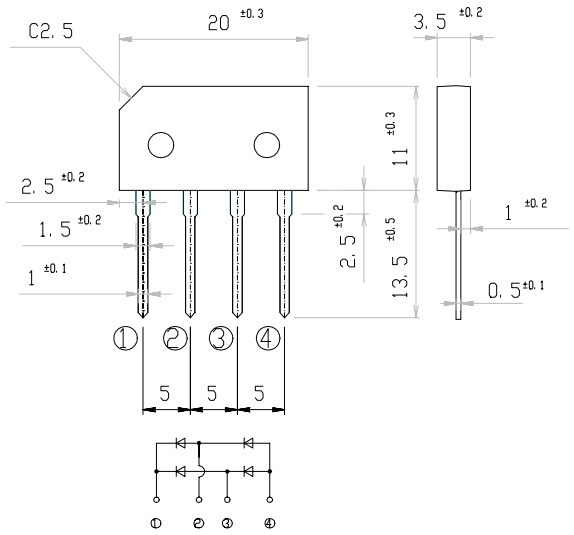
APPLICATION

- Adapter
- Switching power supply
- Home Appliances, Office Equipment, Telecommunication

OUTLINE DIMENSIONS

Case : 2S

Unit : mm



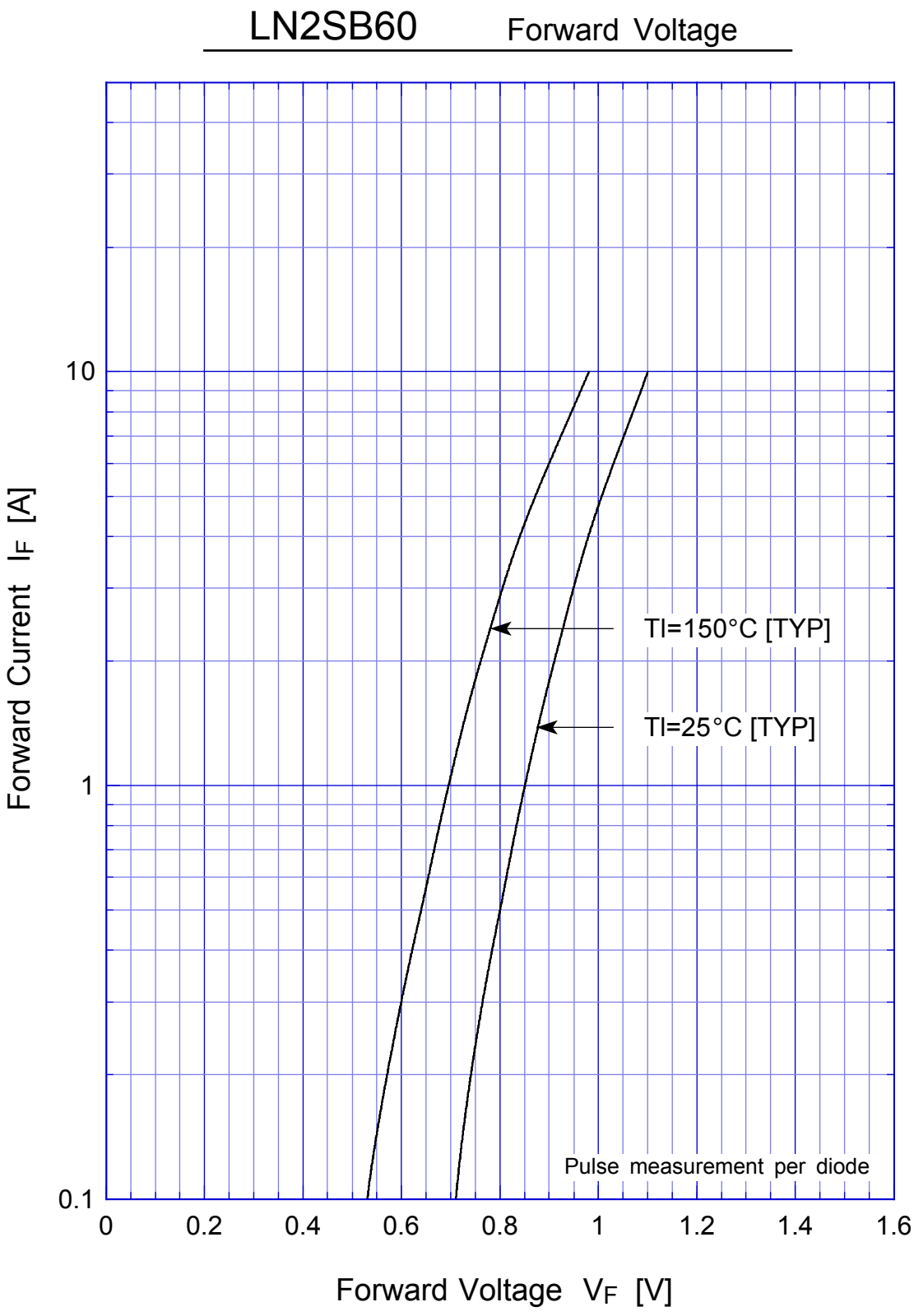
RATINGS

●Absolute Maximum Ratings (If not specified Tl=25℃)

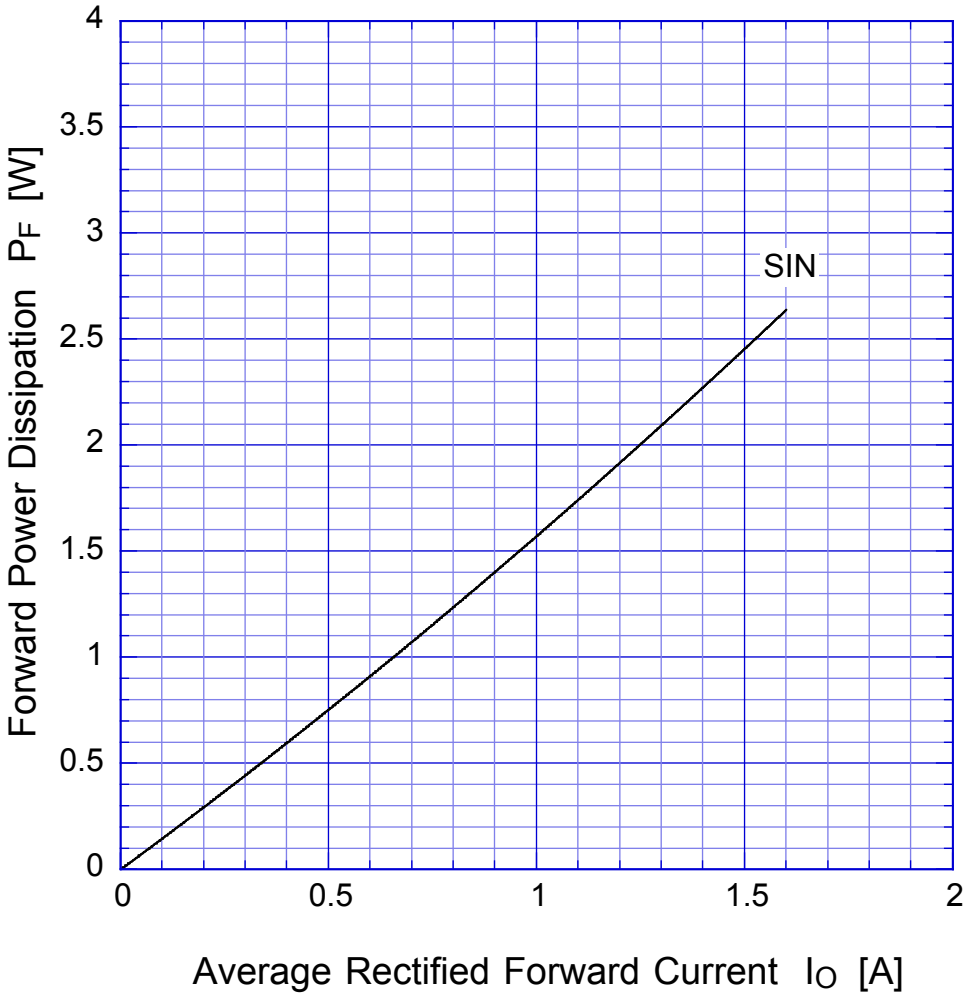
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		−40～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, On glass-epoxy substrate, Ta=25℃	1.6	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25℃	120	A
Current Squared Time	I^2t	1ms≦t＜10ms Tj=25℃	40	A^2s

●Electrical Characteristics (If not specified Tl=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=0.8A, Pulse measurement, Rating of per diode	MAX 1.0	V
Reverse Current	I_R	V_R=V_{RM}, Pulse measurement, Rating of per diode	MAX 10	μA
Reverse Recovery Time	trr	I_F=0.1A, I_R=0.1A, Rating of per diode	MAX 5	μs
Thermal Resistance	θjl	junction to lead	MAX 10	℃/W
	θja	junction to ambient	MAX 47	

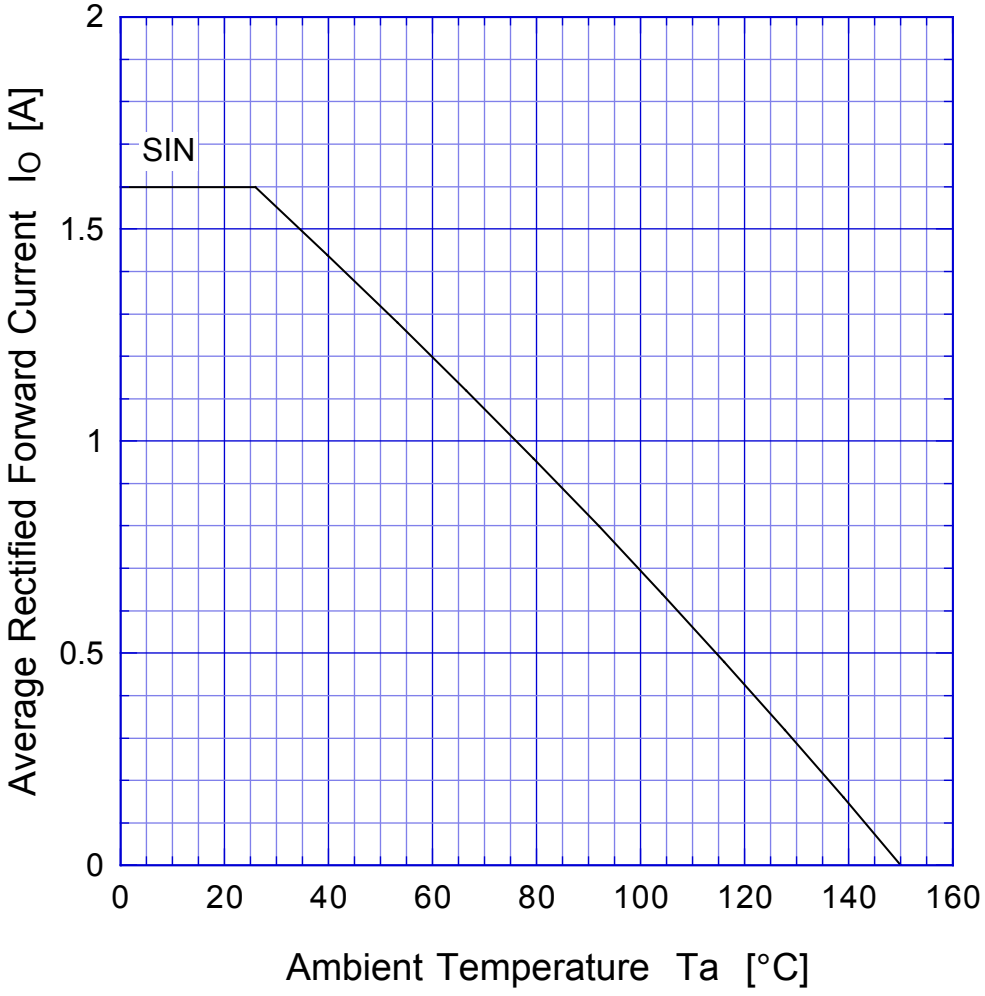

LN2SB60
Forward Voltage
Forward Current IF [A]
10
1
0.1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
Forward Voltage VF [V]
Tl=150°C [TYP]
Tl=25°C [TYP]
Pulse measurement per diode

LN2SB60 Forward Power Dissipation

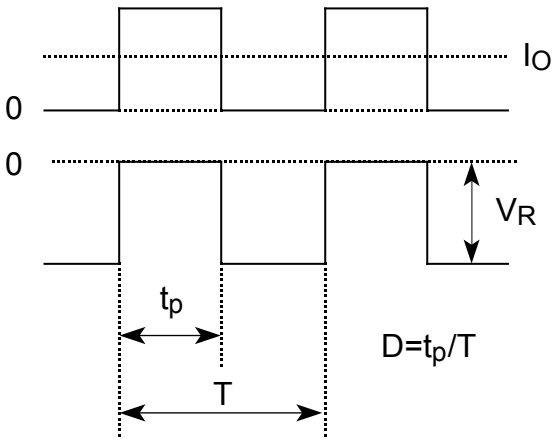


Tj = 150°C
Sine wave

LN2SB60 Derating Curve



V_R = 600V



LN2SB60 Peak Surge Forward Capability