

# LN1VB60

600V 1.2A

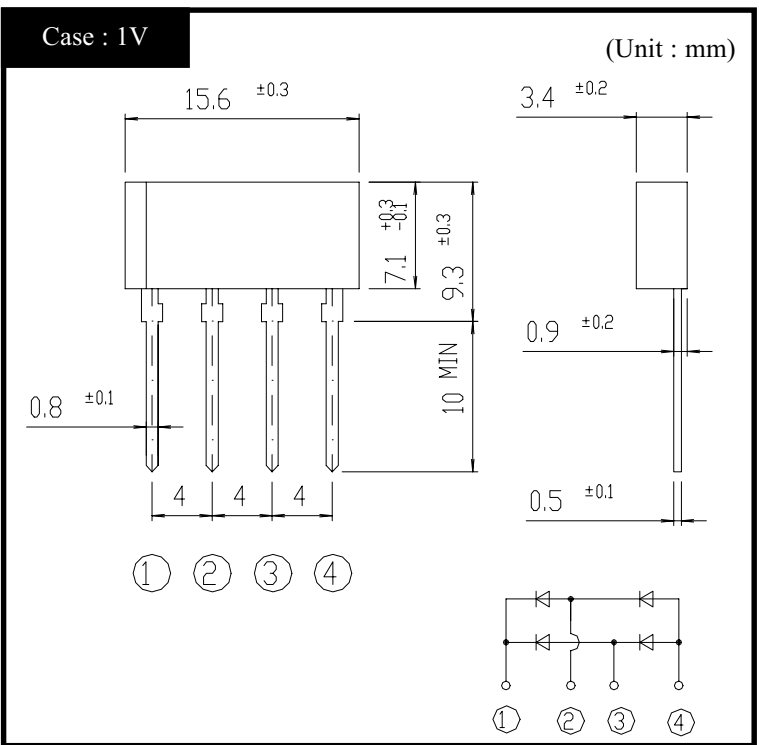
### FEATURES

- Low noise
- Small Single In-Line (:SIL) Package
- Applicable to Automatic Insertion

### APPLICATION

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

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings (If not specified $T_I=25^{\circ}\text{C}$ )

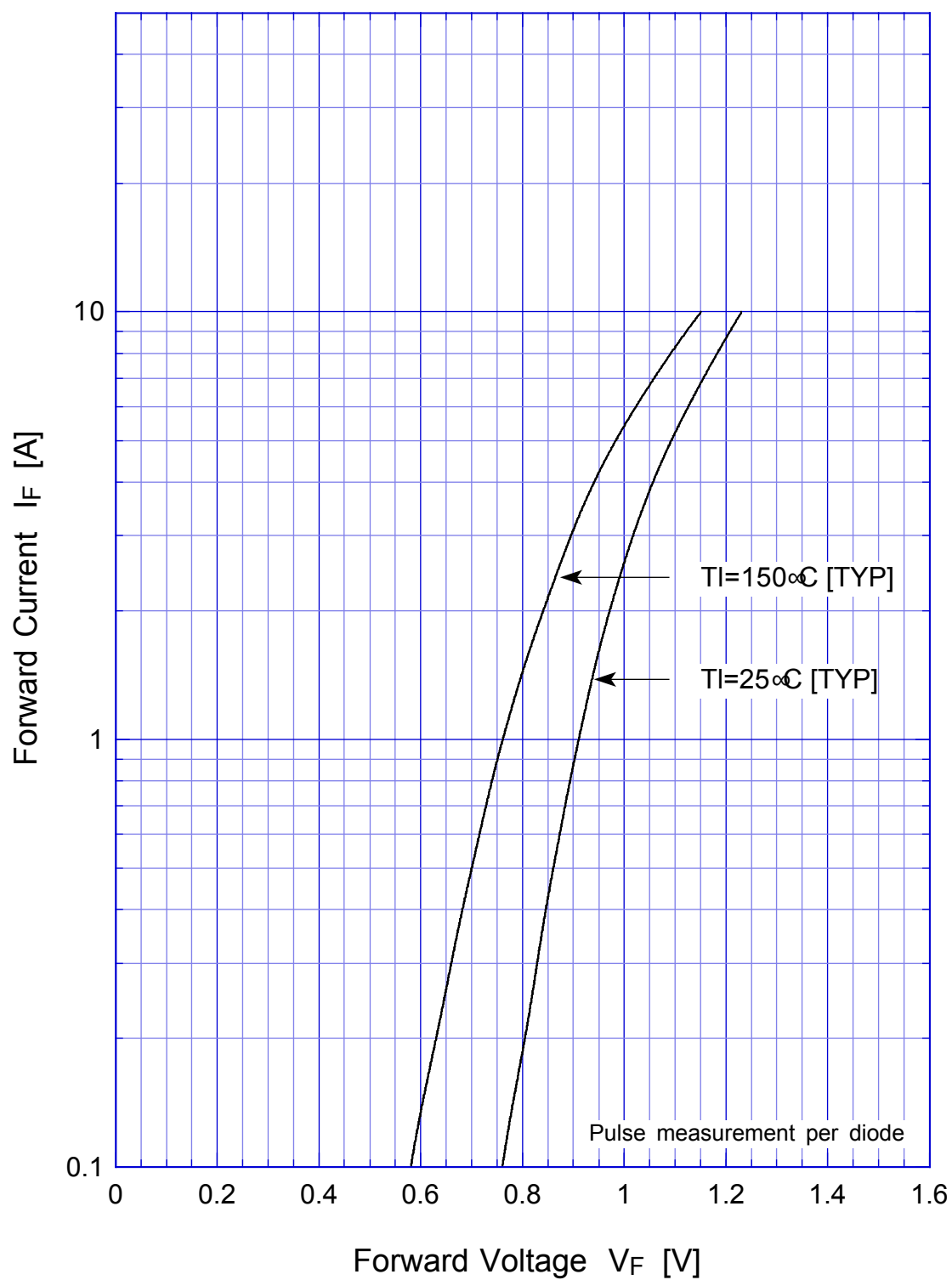
| Item                              | Symbol    | Conditions                                                                 | Ratings        | Unit                 |
|-----------------------------------|-----------|----------------------------------------------------------------------------|----------------|----------------------|
| Storage Temperature               | $T_{stg}$ |                                                                            | $-40 \sim 150$ | $^{\circ}\text{C}$   |
| Operating Junction Temperature    | $T_j$     |                                                                            | 150            | $^{\circ}\text{C}$   |
| Maximum Reverse Voltage           | $V_{RM}$  |                                                                            | 600            | V                    |
| Average Rectified Forward Current | $I_O$     | 50Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$                           | 1.2            | A                    |
| Peak Surge Forward Current        | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^{\circ}\text{C}$ | 50             | A                    |
| Current Squared Time              | $I^2t$    | $1\text{ms} \leq t < 10\text{ms}$ $T_j=25^{\circ}\text{C}$                 | 6              | $\text{A}^2\text{s}$ |

#### ● Electrical Characteristics (If not specified $T_I=25^{\circ}\text{C}$ )

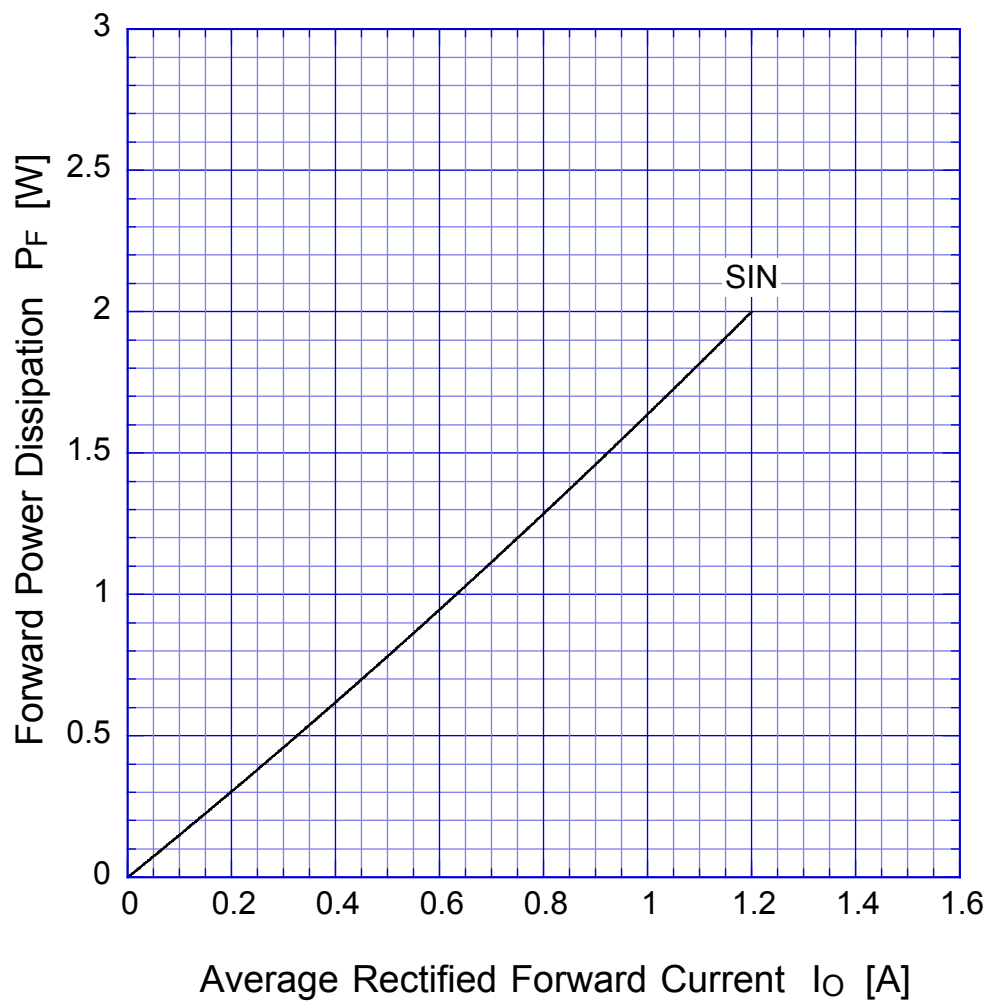
| Item                  | Symbol        | Conditions                                                  | Ratings  | Unit                        |
|-----------------------|---------------|-------------------------------------------------------------|----------|-----------------------------|
| Forward Voltage       | $V_F$         | $I_F=0.6\text{A}$ , 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  | $\mu\text{A}$               |
| Reverse Recovery Time | $t_{rr}$      | $I_F=0.1\text{A}$ , $I_R=0.1\text{A}$ , Rating of per diode | Max. 5   | $\mu\text{s}$               |
| Thermal Resistance    | $\theta_{jl}$ | junction to lead                                            | Max. 16  | $^{\circ}\text{C}/\text{W}$ |
|                       | $\theta_{ja}$ | junction to ambient                                         | Max. 62  |                             |

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Forward Voltage



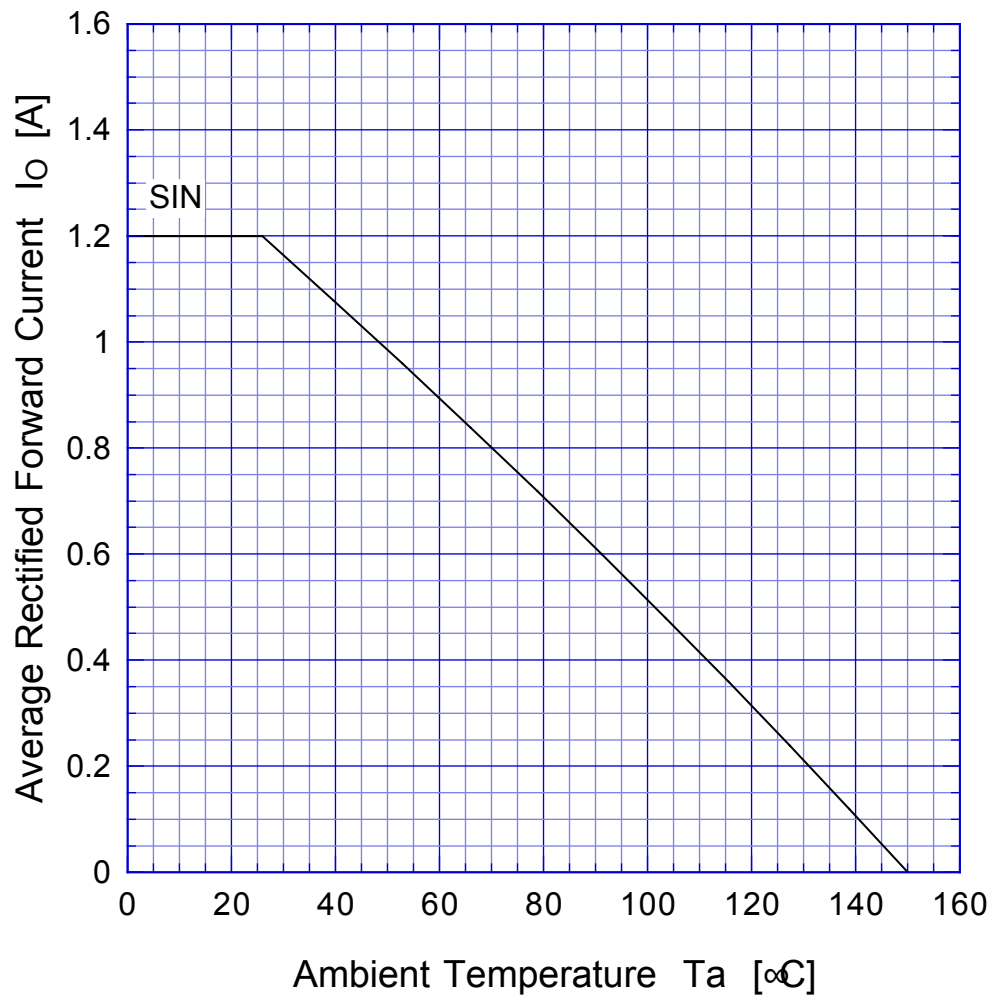
## LN1VB60 Forward Power Dissipation



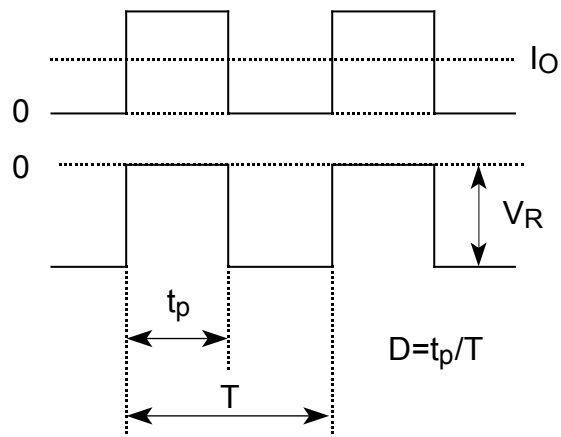
$T_j = 150^{\circ}\text{C}$   
Sine wave

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Derating Curve



$V_R = 600V$



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## Peak Surge Forward Capability

