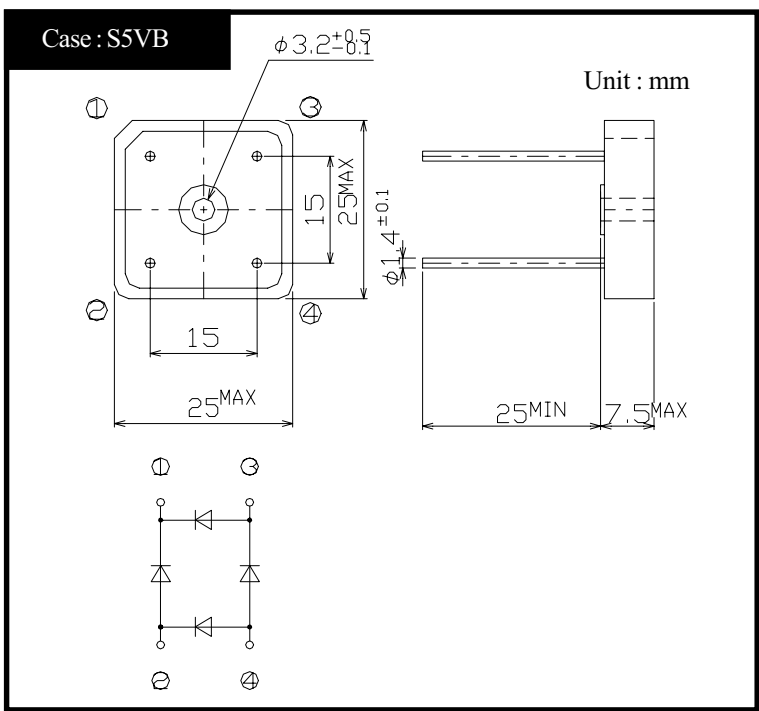


S5VB60

600V 6A

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

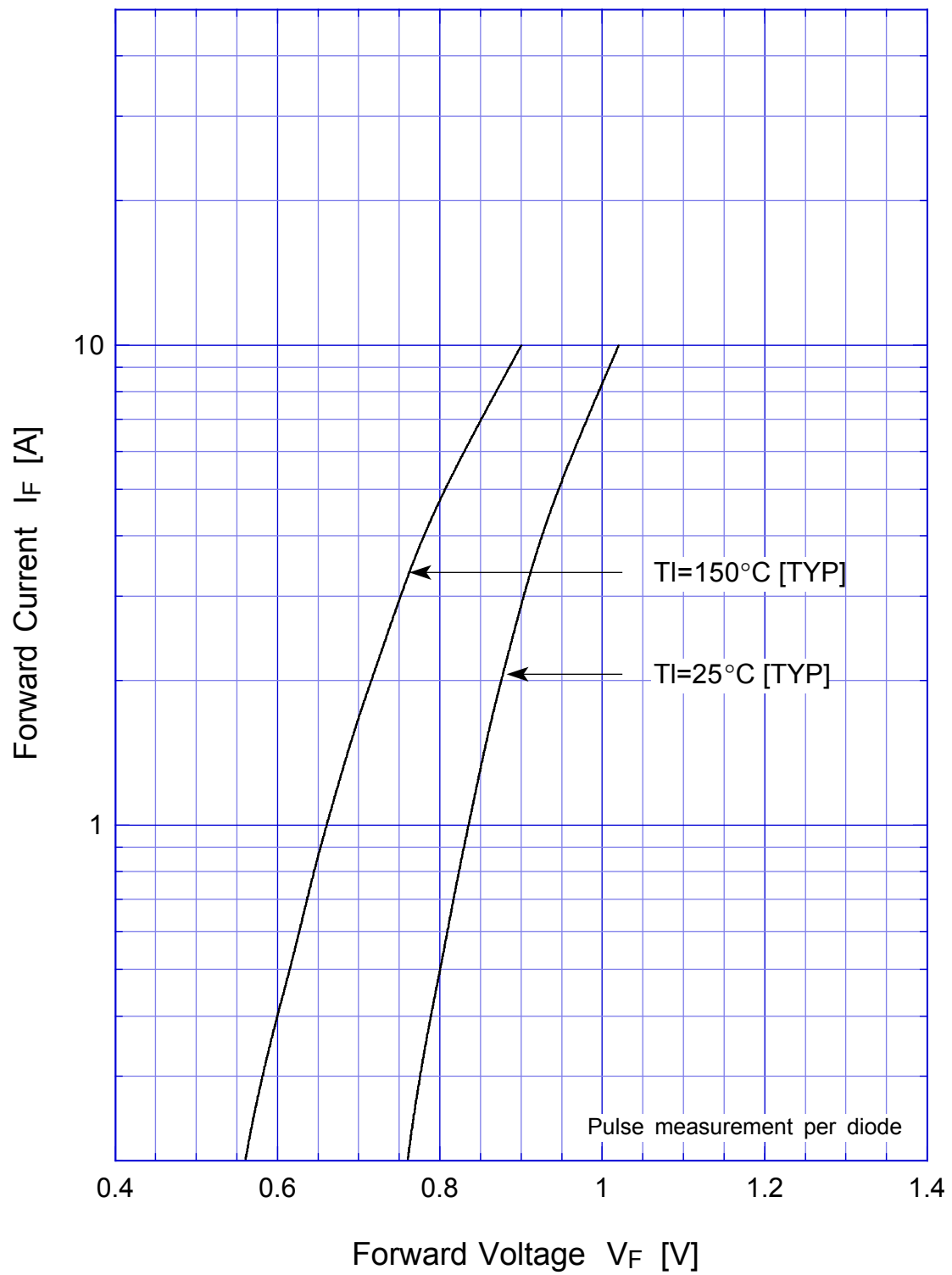
| Item                              | Symbol    | Conditions                                                                           | Ratings | Unit             |
|-----------------------------------|-----------|--------------------------------------------------------------------------------------|---------|------------------|
| Storage Temperature               | $T_{stg}$ |                                                                                      | -40~150 | °C               |
| Operating Junction Temperature    | $T_j$     |                                                                                      | 150     | °C               |
| Maximum Reverse Voltage           | $V_{RM}$  |                                                                                      | 600     | V                |
| Average Rectified Forward Current | $I_O$     | 50Hz sine wave, R-load, $T_a=40^{\circ}C$ With heatsink $\theta_{fa}=6.4^{\circ}C/W$ | 6       | A                |
|                                   |           | 50Hz sine wave, R-load, $T_a=40^{\circ}C$ Without heatsink                           | 3.5     |                  |
| Peak Surge Forward Current        | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^{\circ}C$                  | 200     | A                |
| Current Squared Time              | $I^2t$    | $2ms \leq t < 10ms$ $T_j=25^{\circ}C$                                                | 150     | A <sup>2</sup> s |
| Mounting Torque                   | TOR       | (Recommended torque : 0.5N·m)                                                        | 0.8     | N·m              |

● Electrical Characteristics ( $T_I=25^{\circ}C$ )

| Item               | Symbol        | Conditions                                            | Ratings  | Unit    |
|--------------------|---------------|-------------------------------------------------------|----------|---------|
| Forward Voltage    | $V_F$         | $I_F=3A$ , 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   | $\mu A$ |
| Thermal Resistance | $\theta_{jl}$ | junction to lead                                      | Max.3    | °C/W    |

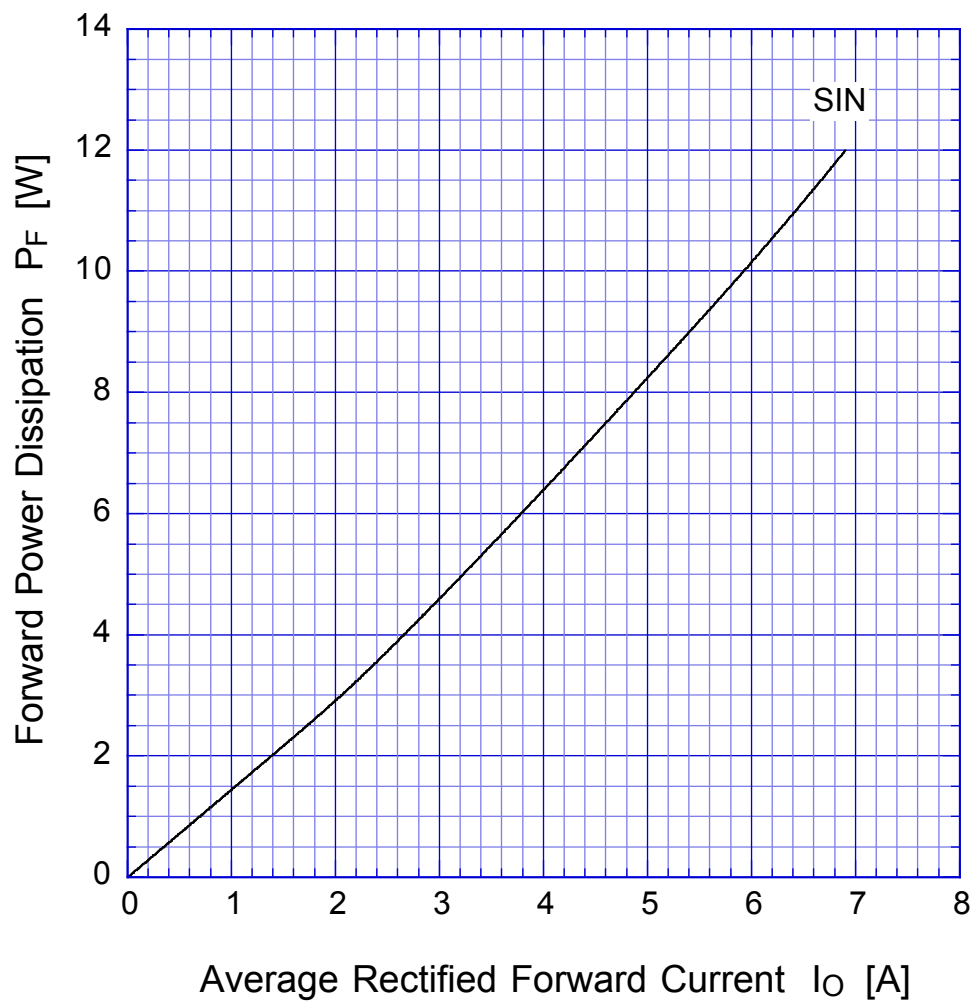
S5VBx

Forward Voltage



S5VBx

Forward Power Dissipation

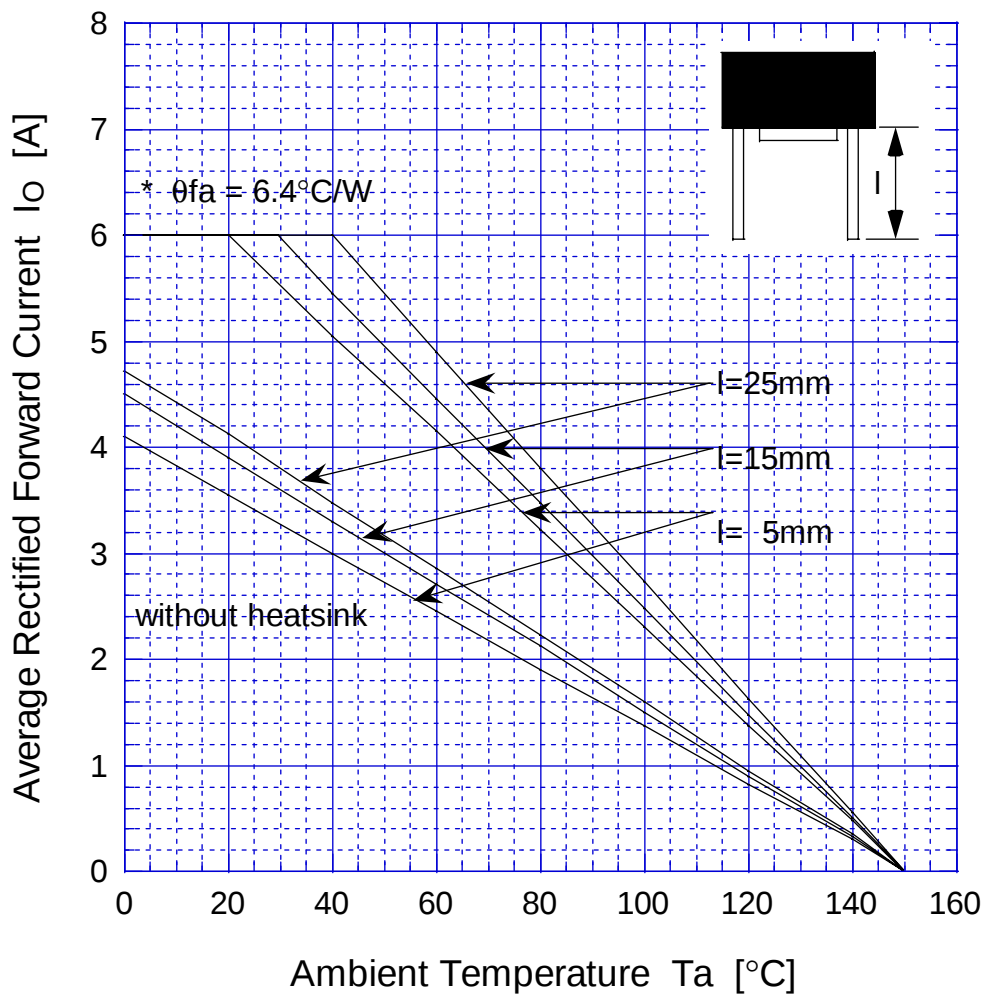


$T_j = 150^\circ\text{C}$

Sine wave

S5VBx

Derating Curve



Sine wave

R-load

Free in air

\* with thermal compound, TOR=0.5N-m

S5VBx

Peak Surge Forward Capability

