

SHINDENGEN

General Purpose Rectifiers

SIL Bridges

D3SB60

600V 4A

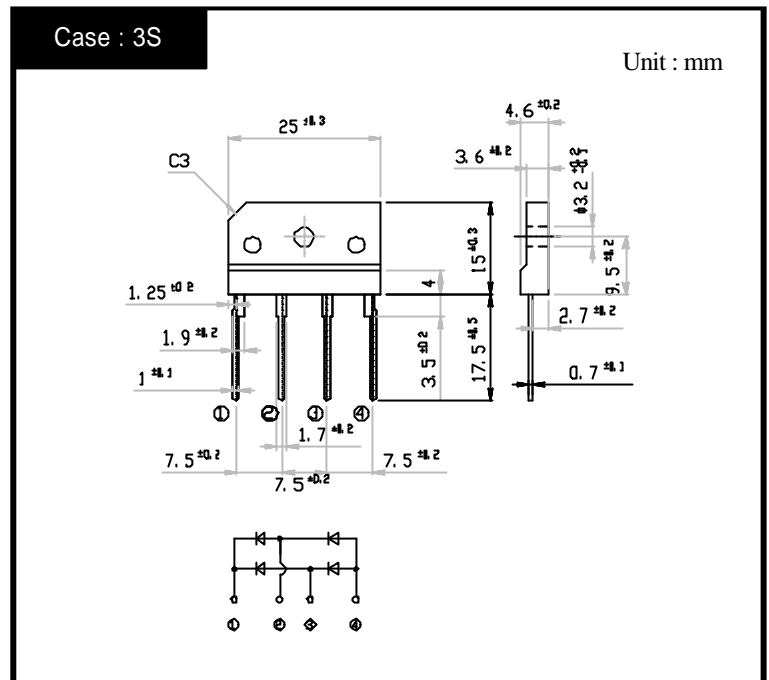
FEATURES

- Thin Single In-Line Package
- High IFSM
- Applicable to Automatic Insertion

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tc=25)

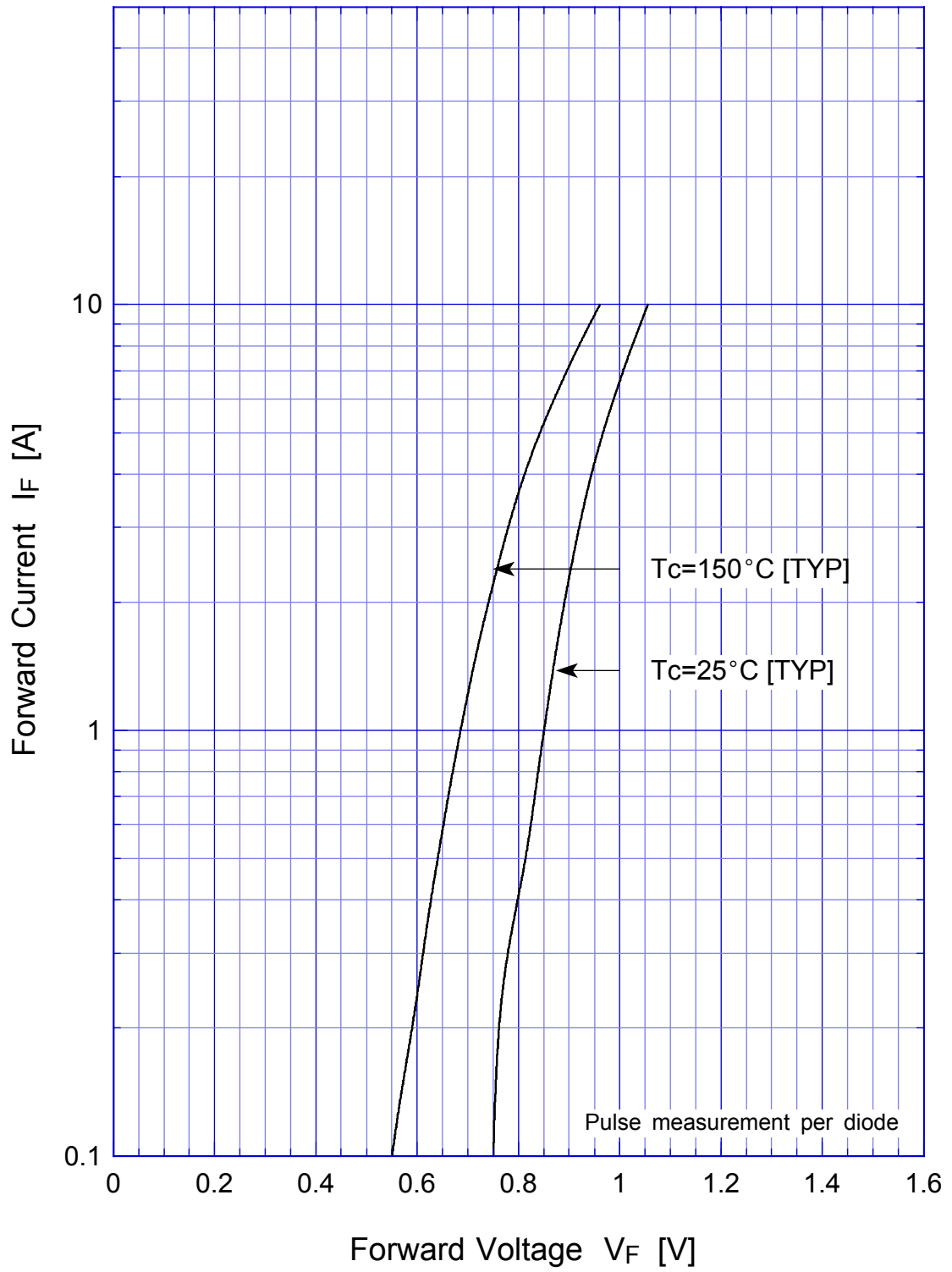
| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|------------------|---|-----------|------------------|
| Storage Temperature | Tstg | | -40 ~ 150 | |
| Operating Junction Temperature | Tj | | 150 | |
| Maximum Reverse Voltage | V _{RM} | | 600 | V |
| Average Rectified Forward Current | I _O | 50Hz sine wave, R-load With heatsink Tc=108 | 4 | A |
| | | 50Hz sine wave, R-load Without heatsink Ta=25 | 2.3 | |
| Peak Surge Forward Current | I _{FSM} | 50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 | 120 | A |
| Current Squared Time | I ² t | 1ms t < 10ms Tj=25 | 60 | A ² s |
| Dielectric Strength | Vdis | 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)

| Item | Symbol | Conditions | Ratings | Unit |
|--------------------|----------------|--|----------|------|
| Forward Voltage | V _F | IF=2A, 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 | μA |
| | | | | |
| Thermal Resistance | jC | junction to case With heatsink | Max.5.5 | /W |
| | jL | junction to lead Without heatsink | Max.6 | |
| | ja | junction to ambient Without heatsink | Max.30 | |

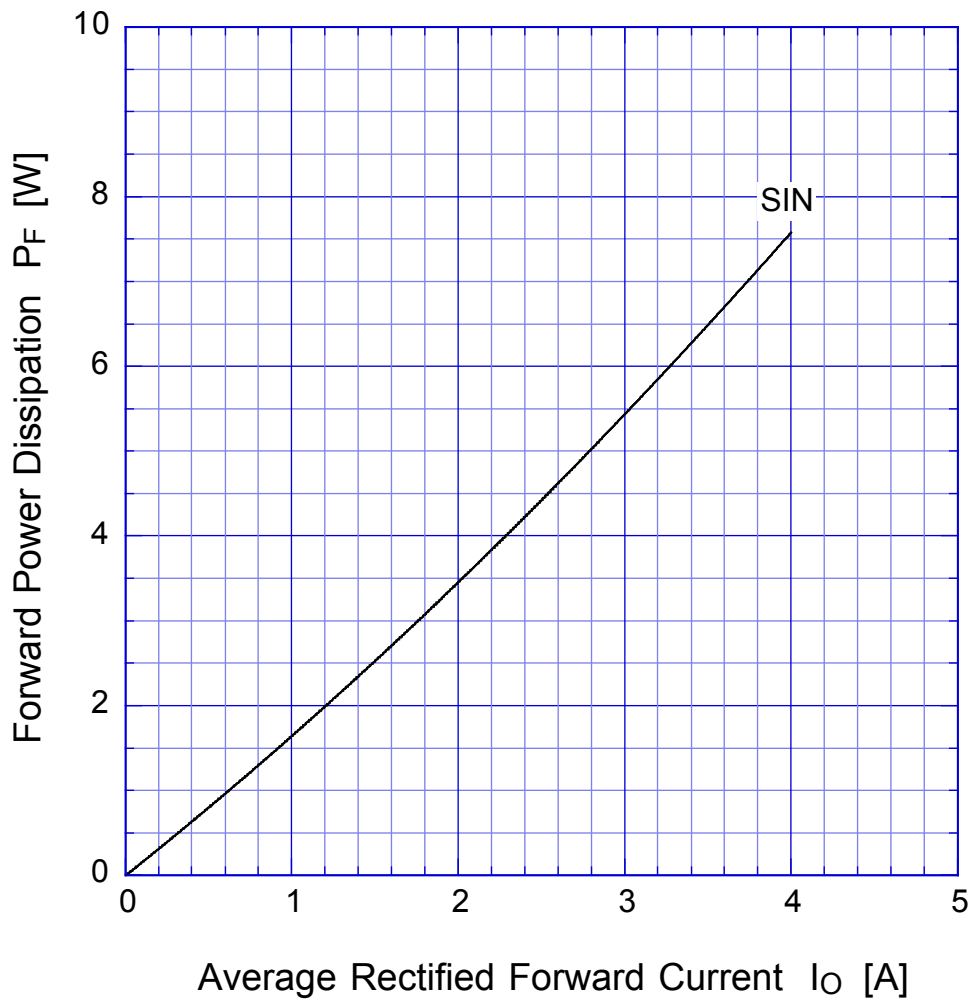
D3SBx

Forward Voltage



D3SBx

Forward Power Dissipation

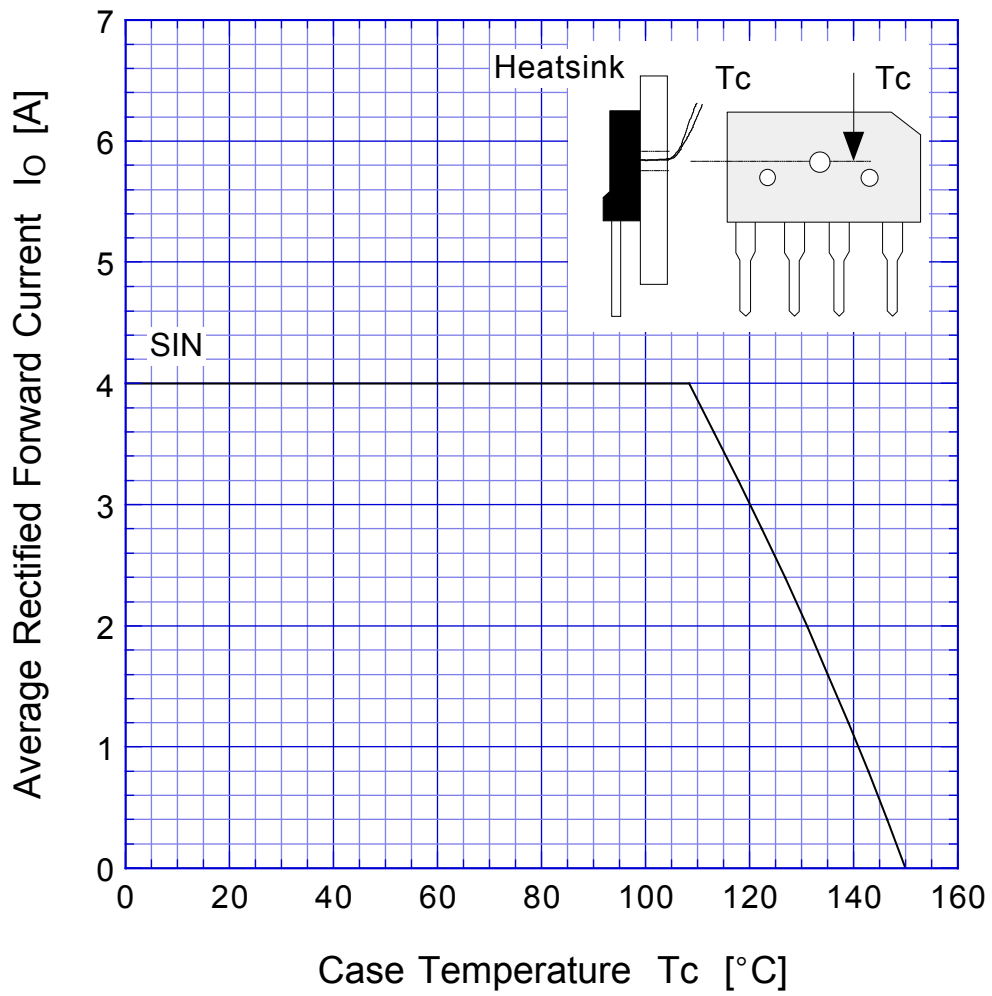


$T_j = 150^\circ\text{C}$

Sine wave

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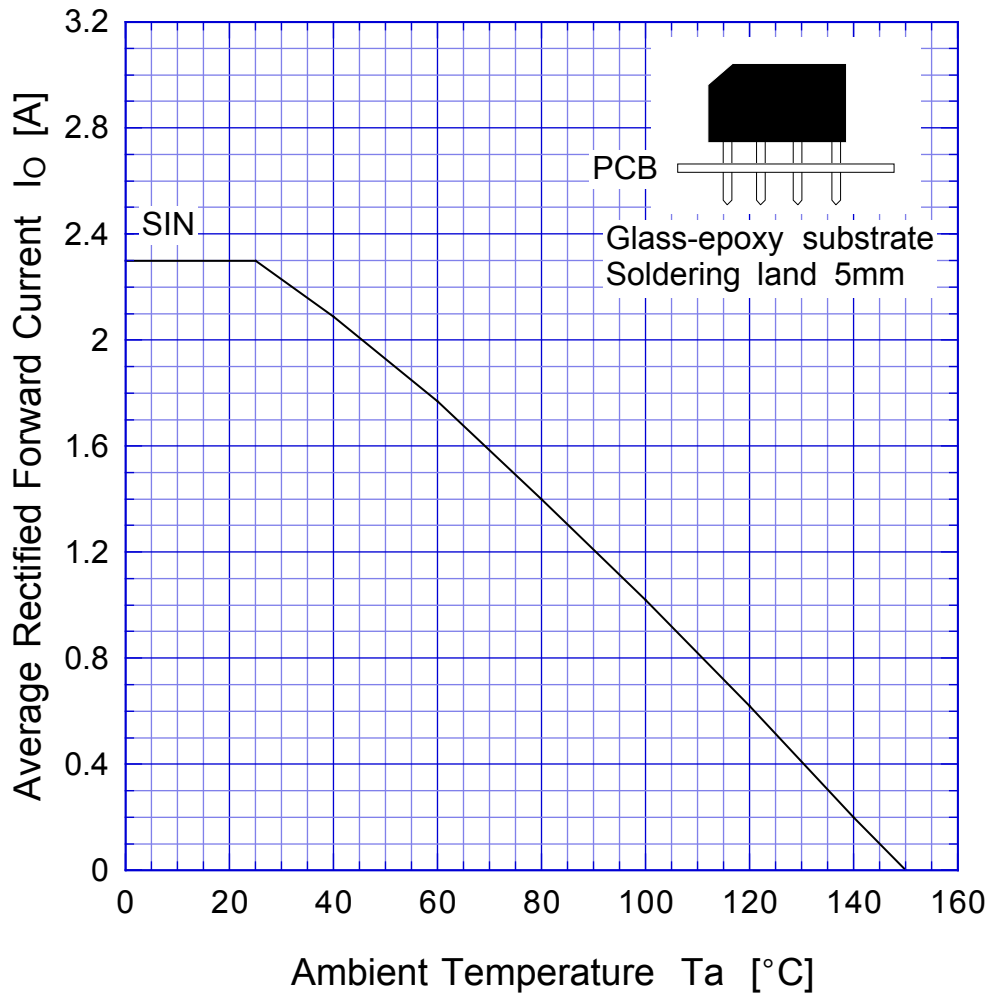
Derating Curve



Sine wave
R-load
with heatsink

D3SBx

Derating Curve



Sine wave
R-load
Free in air

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Peak Surge Forward Capability

