

SHINDENGEN

General Purpose Rectifiers

UL Bridges

U6SB20

200V 6A

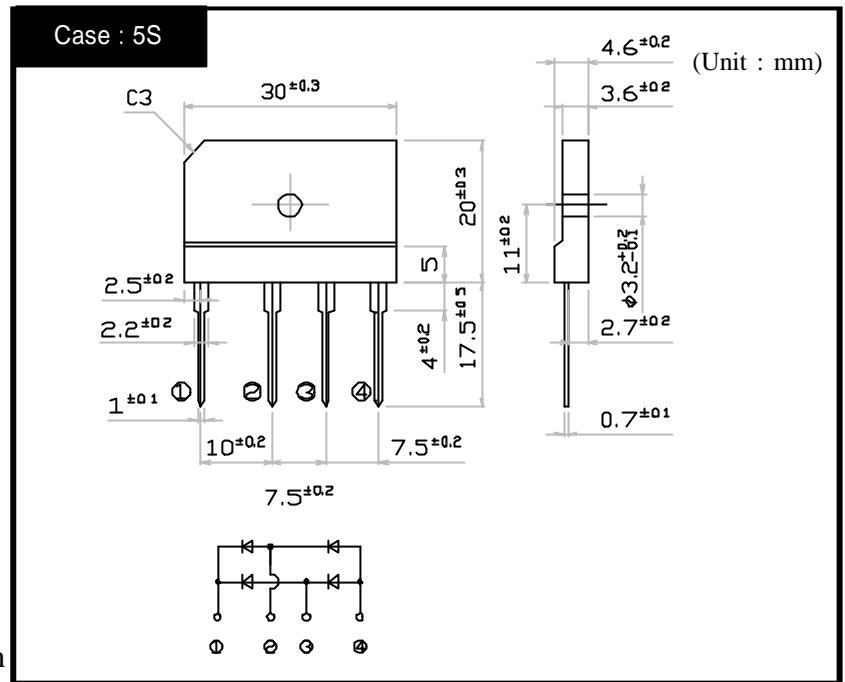
FEATURES

- Thin Single In-Line Package
- UL Recognized
(UL File No.E142422)
- 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)

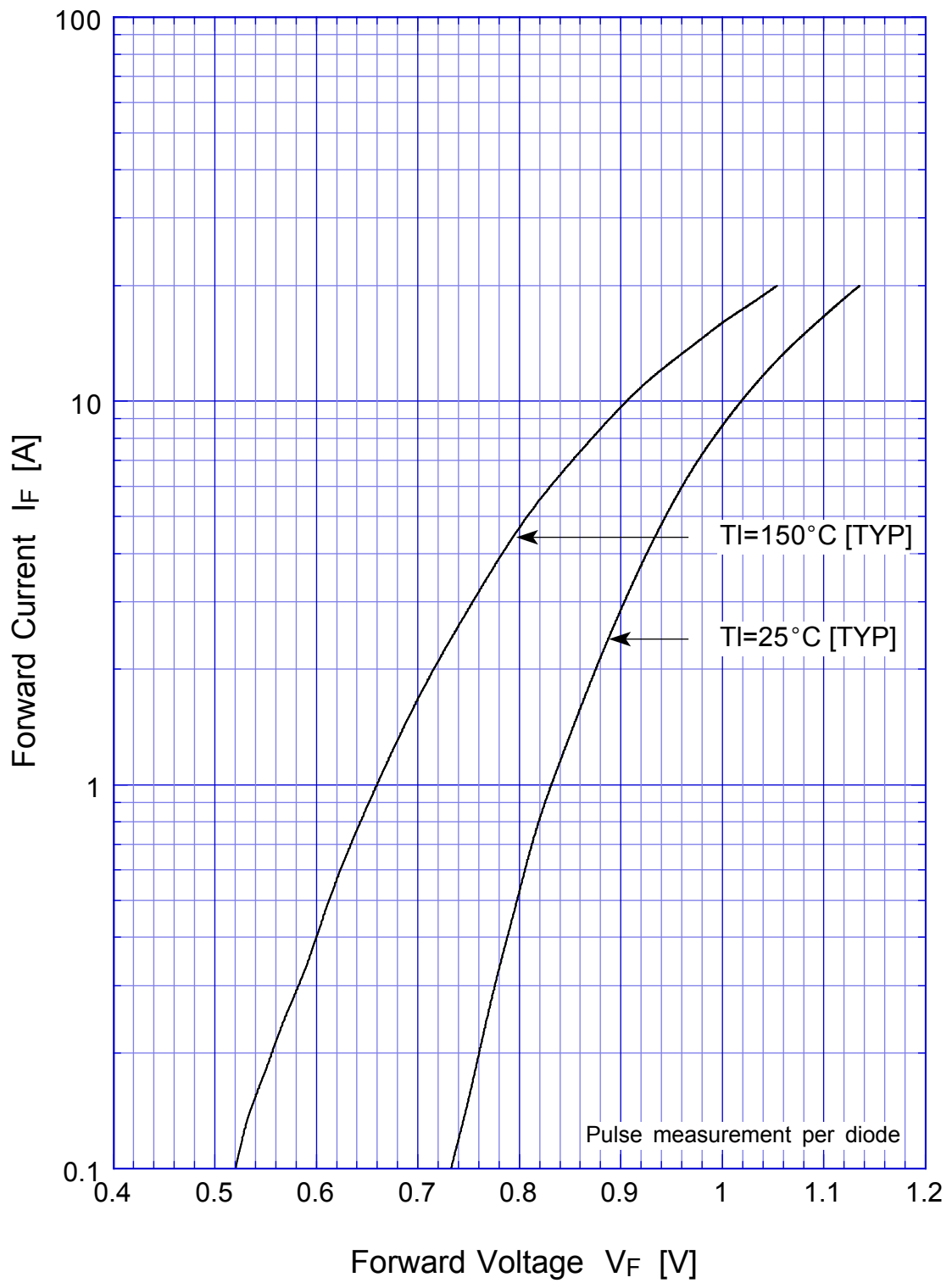
| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|------------------|---|-----------|------------------|
| Storage Temperature | T _{stg} | | -40 ~ 150 | |
| Operating Junction Temperature | T _j | | 150 | |
| Maximum Reverse Voltage | V _{RM} | | 200 | V |
| Average Rectified Forward Current | I _O | 50Hz sine wave, R-load With heatsink Tc=111 | 6 | A |
| | | 50Hz sine wave, R-load Without heatsink Ta=25 | 2.8 | |
| Peak Surge Forward Current | I _{FSM} | 50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 | 170 | A |
| Current Squared Time | I ² t | 2ms t < 10ms Tj=25 | 140 | A ² s |
| Dielectric Strength | V _{dis} | 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 | 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 | μA |
| Thermal Resistance | j-c | junction to case With heatsink | Max.3.4 | /W |
| | j-l | junction to lead Without heatsink | Max.5 | |
| | j-a | junction to ambient Without heatsink | Max.26 | |

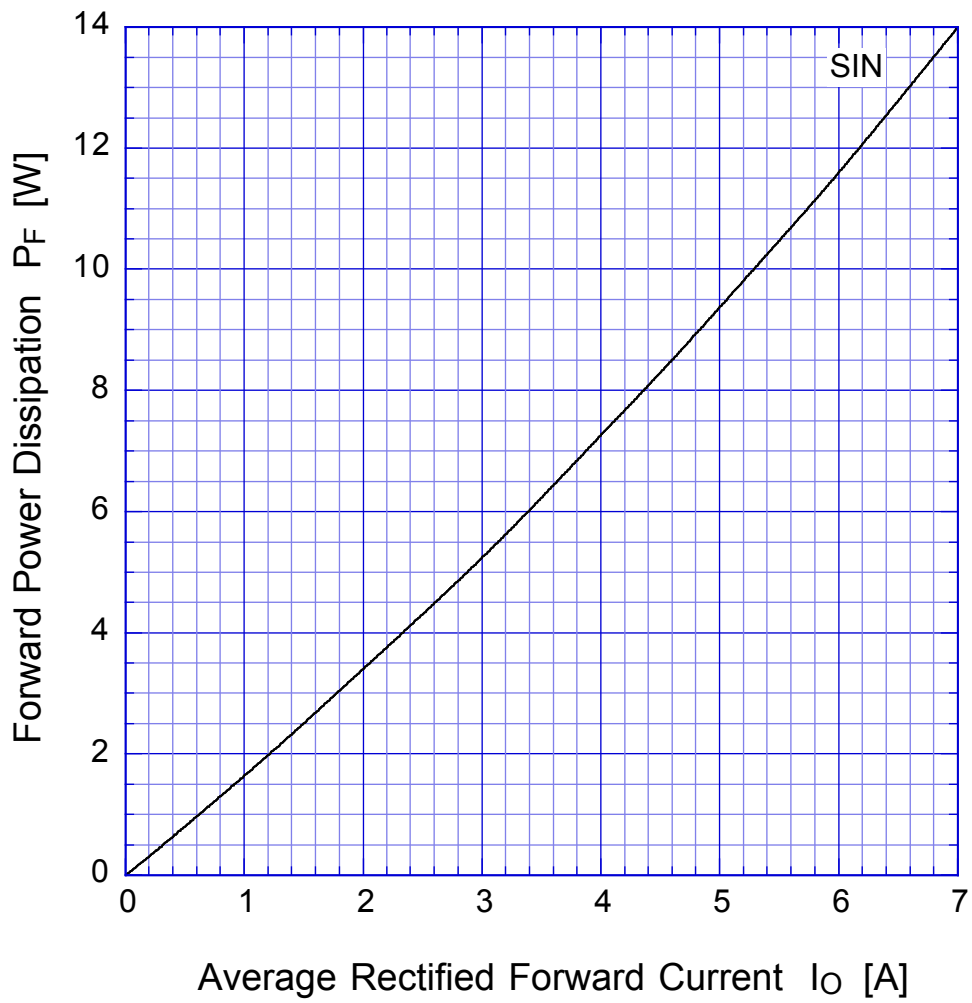
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Forward Voltage



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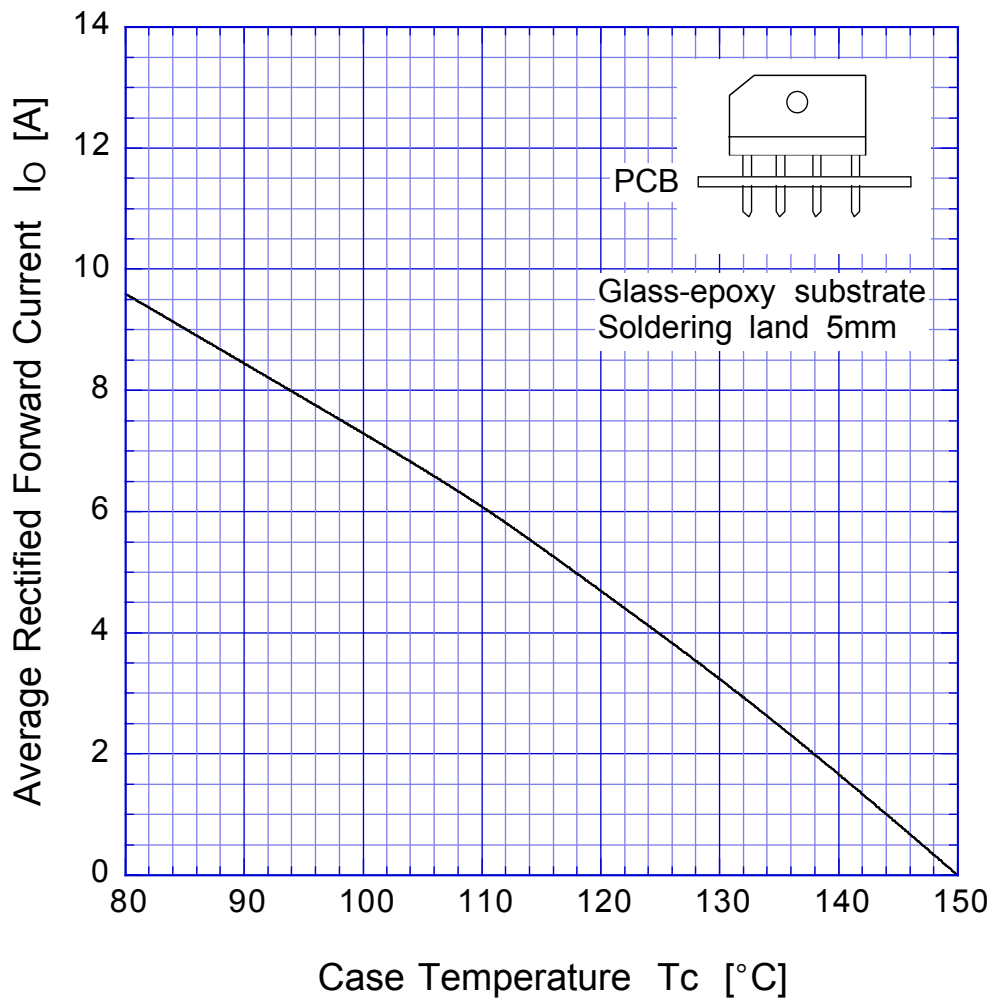
Forward Power Dissipation



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

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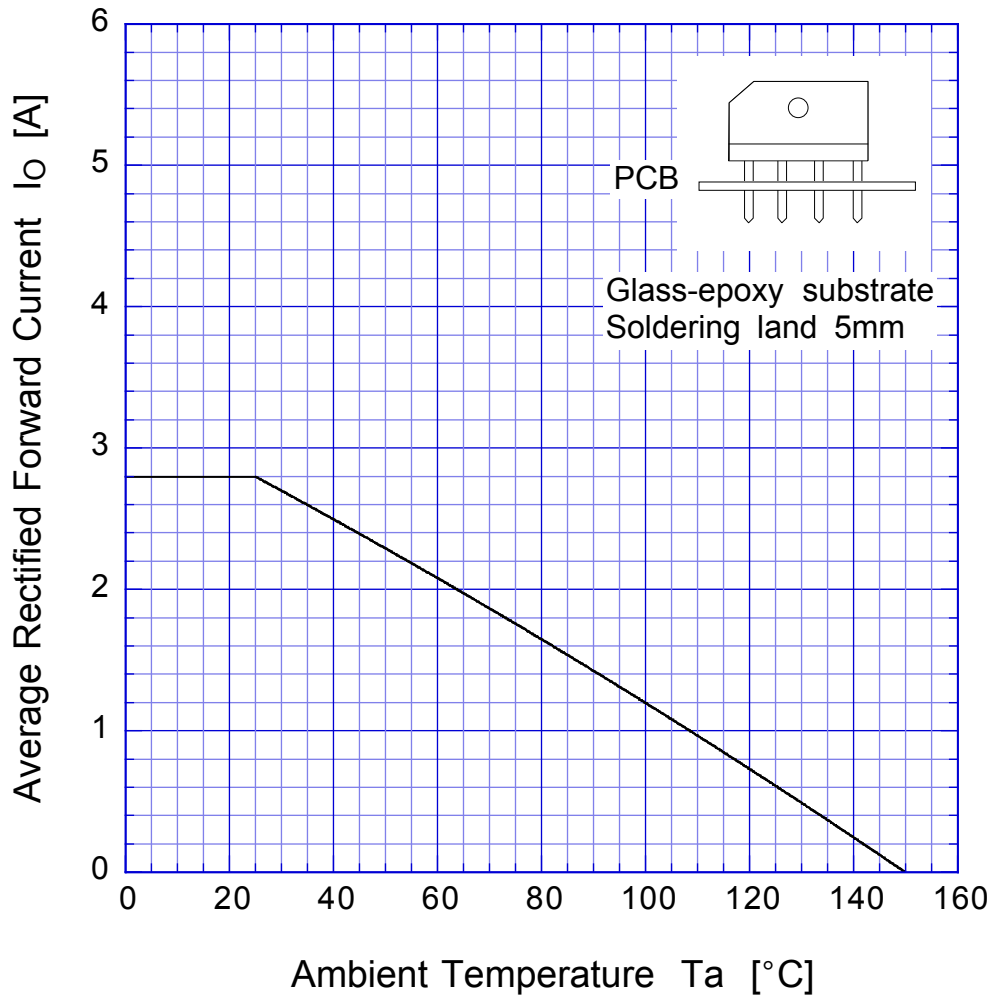
Derating Curve



Sine wave
R-load
Free in air

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Derating Curve



Sine wave
R-load
Free in air

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Peak Surge Forward Capability

