

SHINDENGEN

General Purpose Rectifiers

SIL Bridges

D2SBA20

200V 1.5A

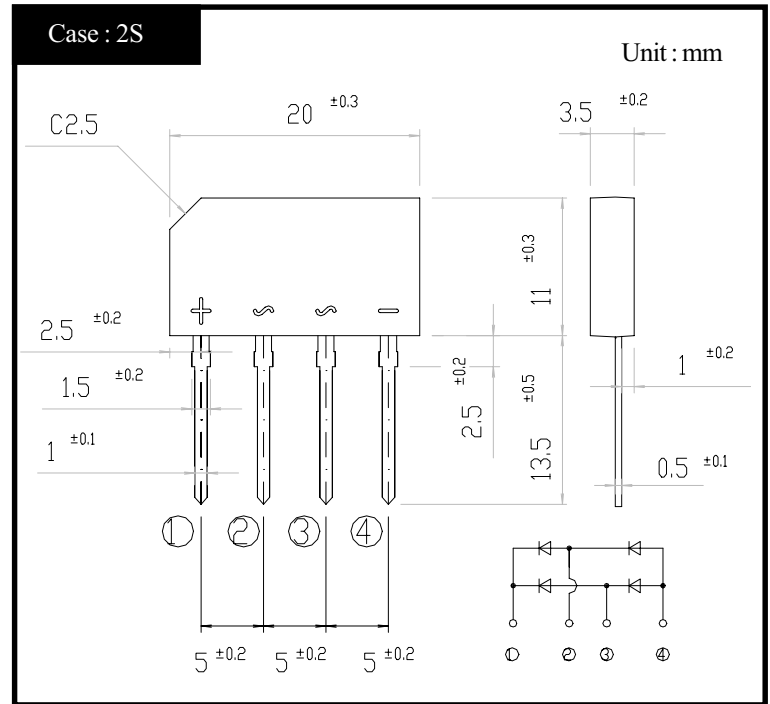
FEATURES

- 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 $T_I=25^{\circ}\text{C}$)

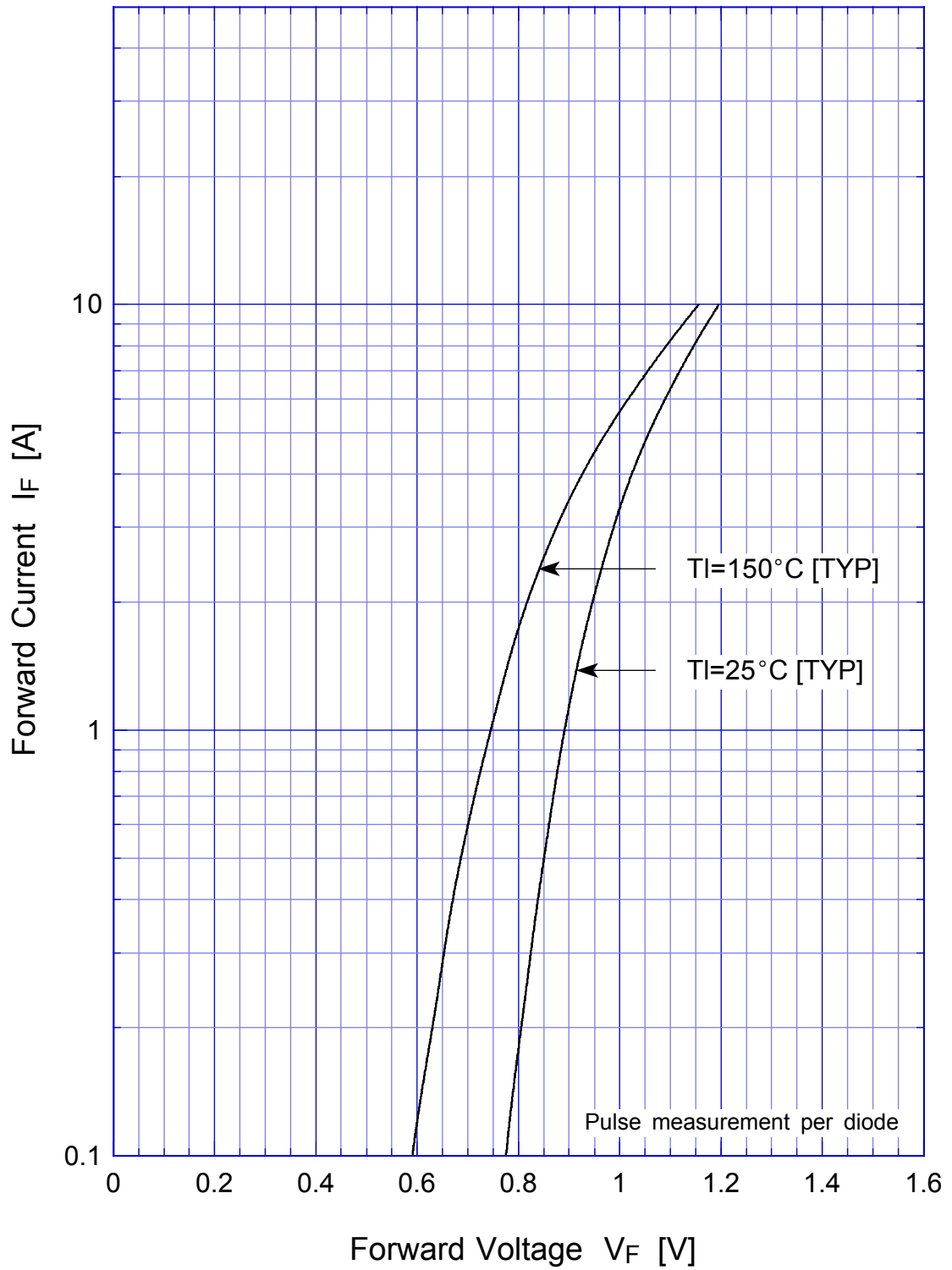
| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|-----------|--|---------|----------------------|
| Storage Temperature | T_{stg} | | -40~150 | $^{\circ}\text{C}$ |
| Operating Junction Temperature | T_j | | 150 | $^{\circ}\text{C}$ |
| Maximum Reverse Voltage | V_{RM} | | 200 | V |
| Average Rectified Forward Current | I_O | 50Hz sine wave, R-load, On glass-epoxy substrate, $T_a=25^{\circ}\text{C}$ | 1.5 | A |
| Peak Surge Forward Current | I_{FSM} | 50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^{\circ}\text{C}$ | 60 | A |
| Current Squared Time | I^2t | $1\text{ms} \leq t < 10\text{ms}$ $T_j=25^{\circ}\text{C}$ | 16 | A^2s |

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

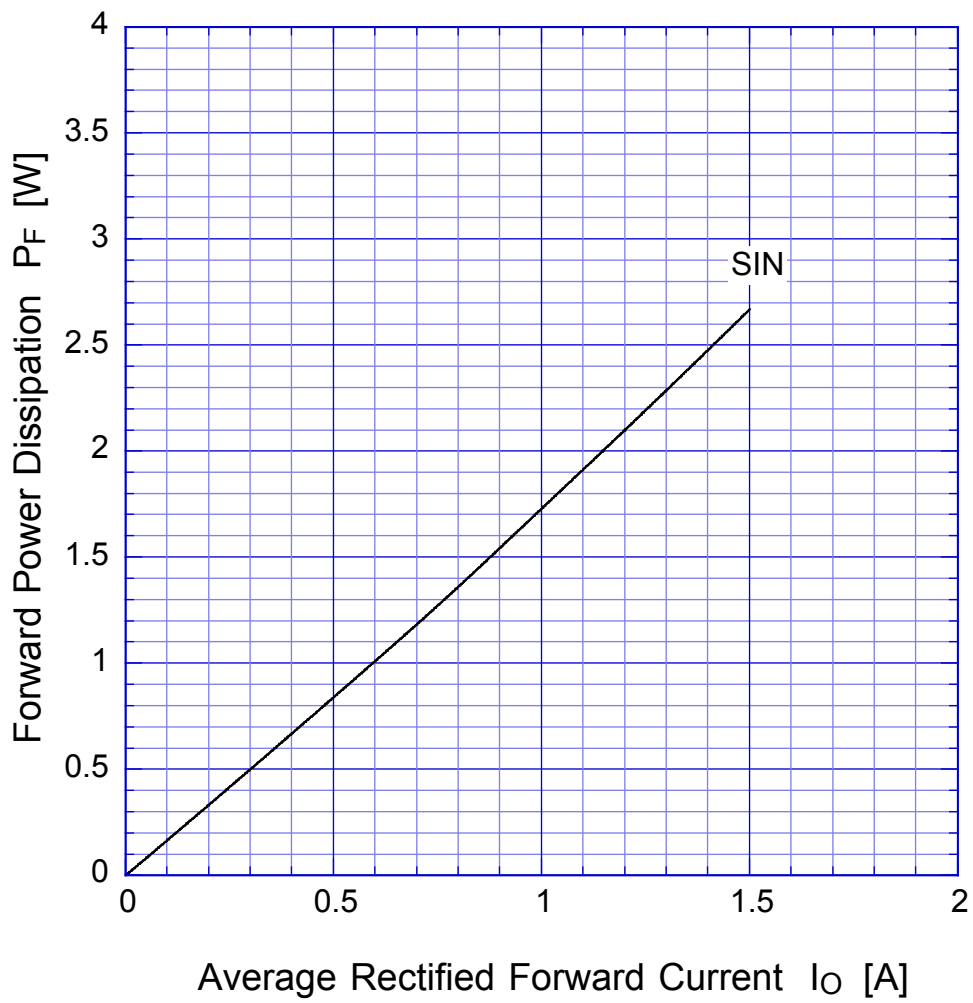
| Item | Symbol | Conditions | Ratings | Unit |
|--------------------|---------------|---|----------|-----------------------------|
| Forward Voltage | V_F | $I_F=0.75\text{A}$, Pulse measurement, Rating of per diode | Max.1.05 | V |
| Reverse Current | I_R | $V_R=V_{RM}$, Pulse measurement, Rating of per diode | Max.10 | μA |
| Thermal Resistance | θ_{jl} | junction to lead | Max.10 | $^{\circ}\text{C}/\text{W}$ |
| | θ_{ja} | junction to ambient | Max.47 | |

D2SBAx

Forward Voltage



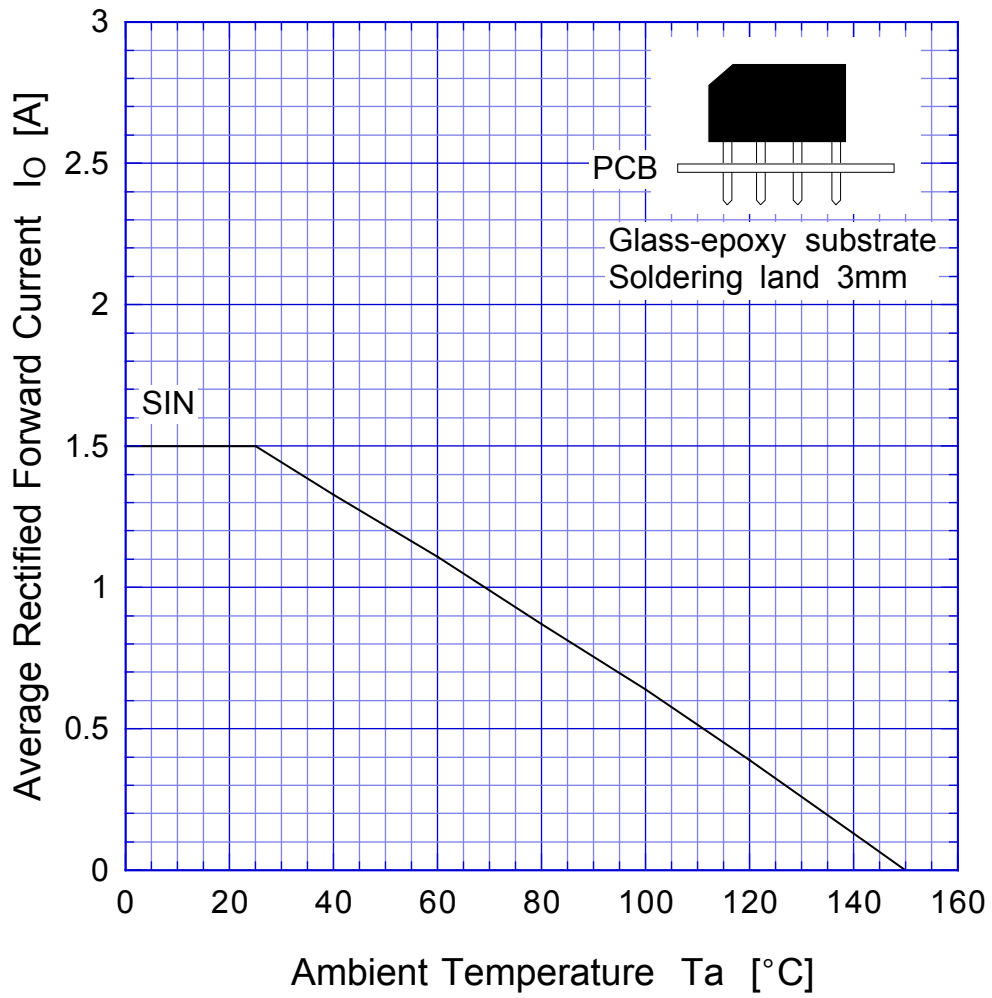
D2SBAX Forward Power Dissipation



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

D2SBAx

Derating Curve



Sine wave
R-load
Free in air

D2SBAx

Peak Surge Forward Capability

