

S1VBA20

200V 1A

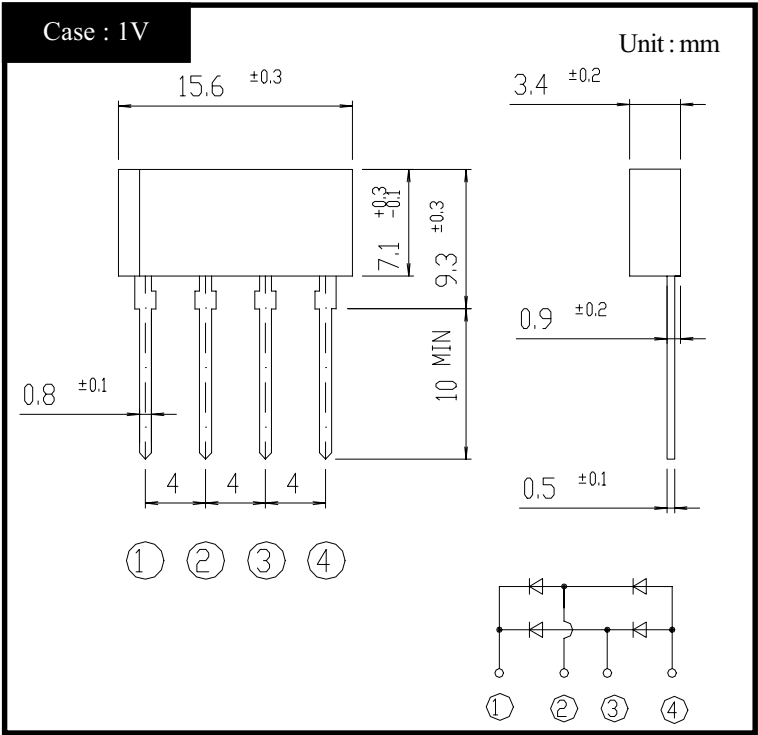
FEATURES

- Small Single In-Line(:SIL)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 TI=25°C)

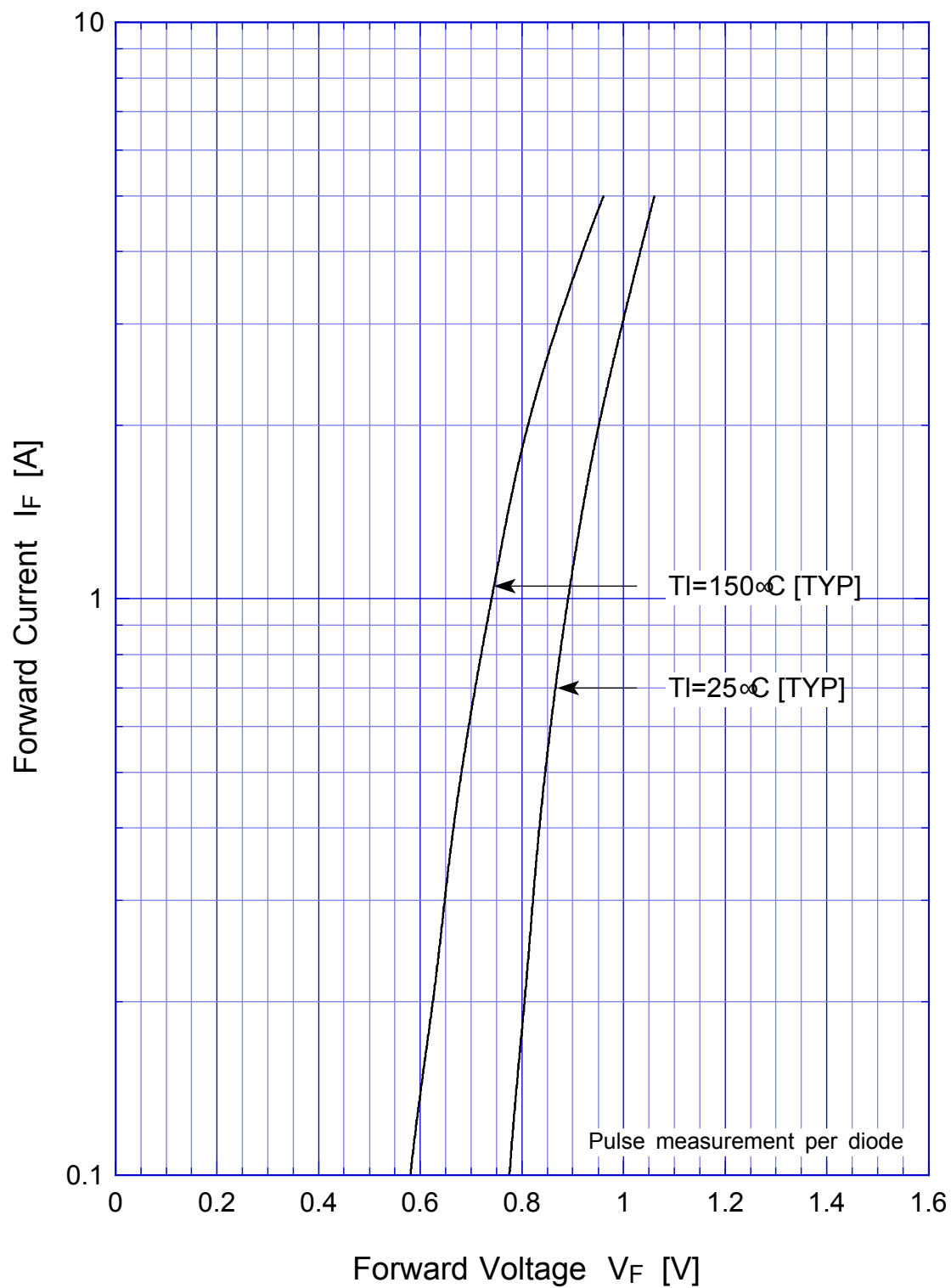
| Item                              | Symbol           | Conditions                                                | Ratings | Unit             |
|-----------------------------------|------------------|-----------------------------------------------------------|---------|------------------|
| Storage Temperature               | Tstg             |                                                           | -40~150 | °C               |
| Operating Junction Temperature    | Tj               |                                                           | 150     | °C               |
| Maximum Reverse Voltage           | V <sub>RM</sub>  |                                                           | 200     | V                |
| Average Rectified Forward Current | I <sub>O</sub>   | 50Hz sine wave, R-load, On glass-epoxy substrate, Ta=25°C | 1       | A                |
| Peak Surge Forward Current        | I <sub>FSM</sub> | 50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C | 50      | A                |
| Current Squared Time              | I <sup>2</sup> t | 1ms ≤ t < 10ms Tj=25°C                                    | 10      | A <sup>2</sup> s |

●Electrical Characteristics (If not specified TI=25°C)

| Item               | Symbol          | Conditions                                                               | Ratings  | Unit |
|--------------------|-----------------|--------------------------------------------------------------------------|----------|------|
| Forward Voltage    | V <sub>F</sub>  | I <sub>F</sub> =0.5A, Pulse measurement, Rating of per diode             | Max.1.05 | V    |
| Reverse Current    | I <sub>R</sub>  | V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode | Max.10   | μA   |
| Thermal Resistance | θ <sub>jl</sub> | junction to lead                                                         | Max.16   | °C/W |
|                    | θ <sub>ja</sub> | junction to ambient                                                      | Max.62   |      |

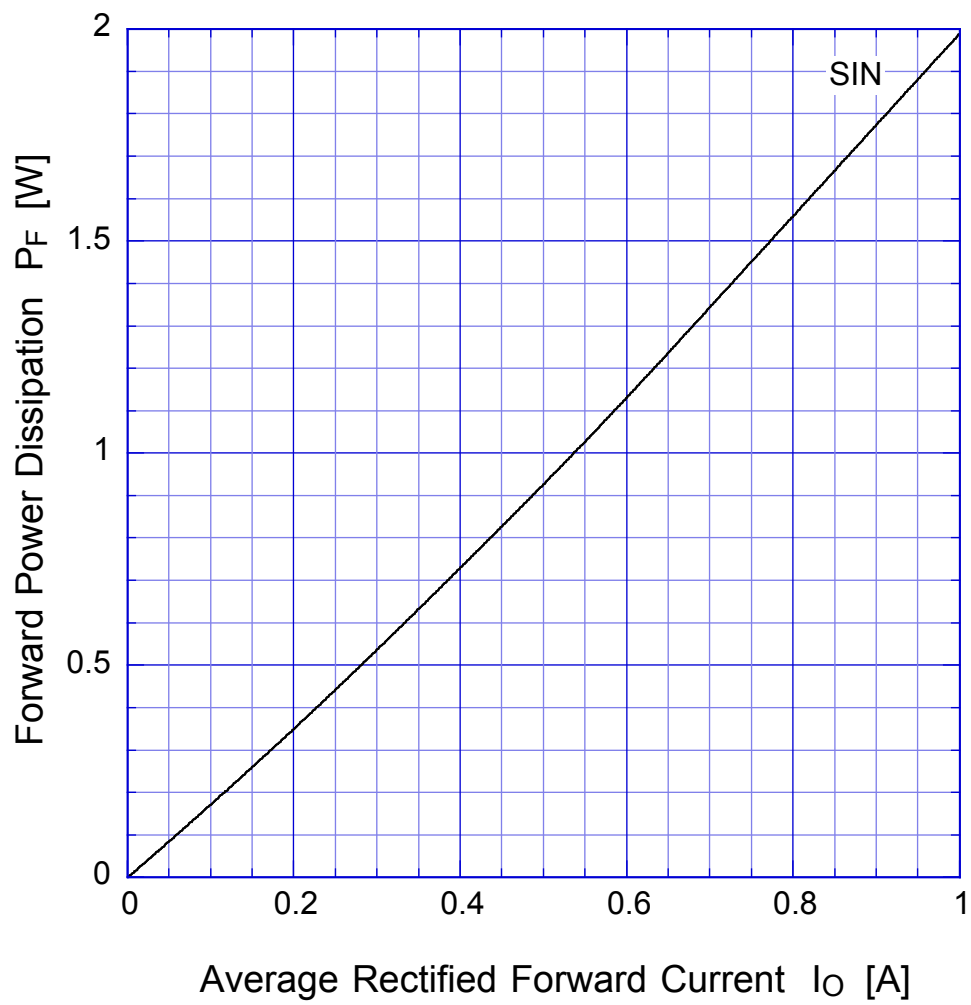
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Forward Voltage



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Forward Power Dissipation

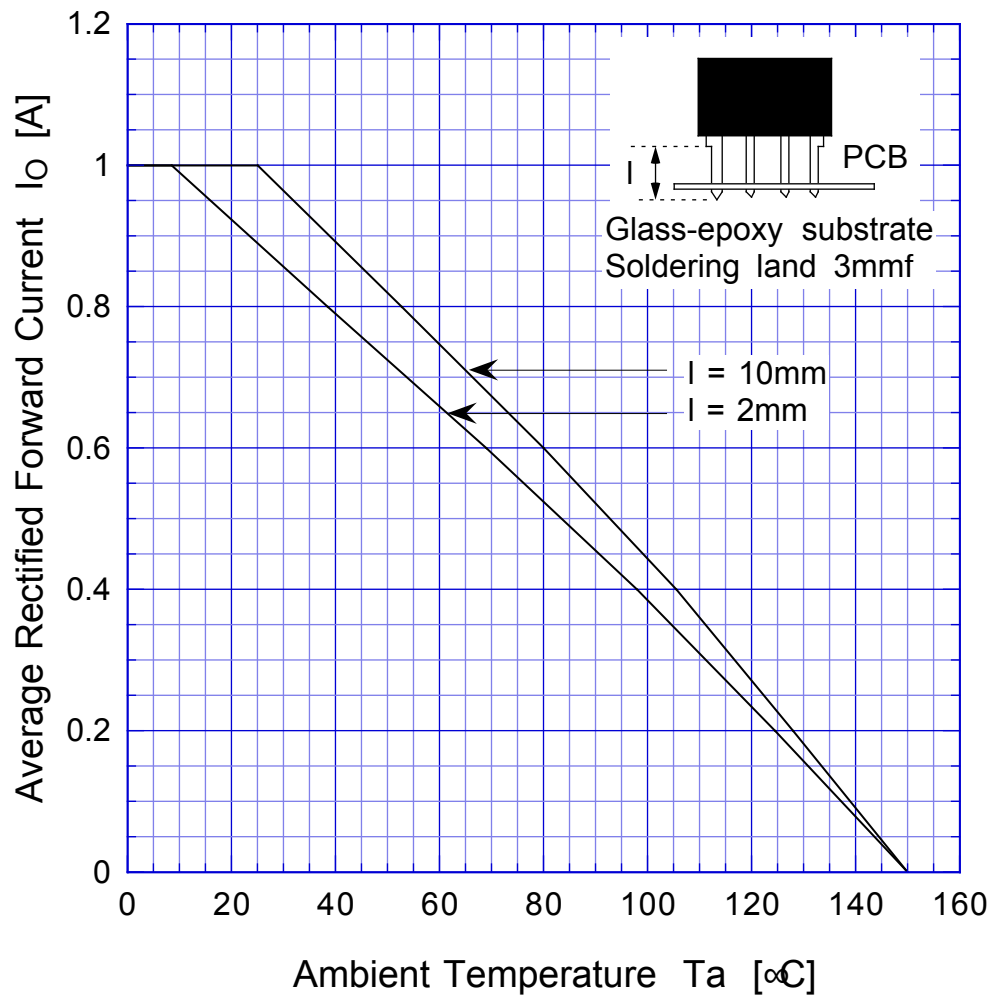


$T_j = 150^{\circ}\text{C}$

Sine wave

# S1VBAx

## Derating Curve



$V_R = V_{RM}$   
 Sine wave  
 R-load  
 Free in air

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Peak Surge Forward Capability

