

S1VBA20

200V 1A

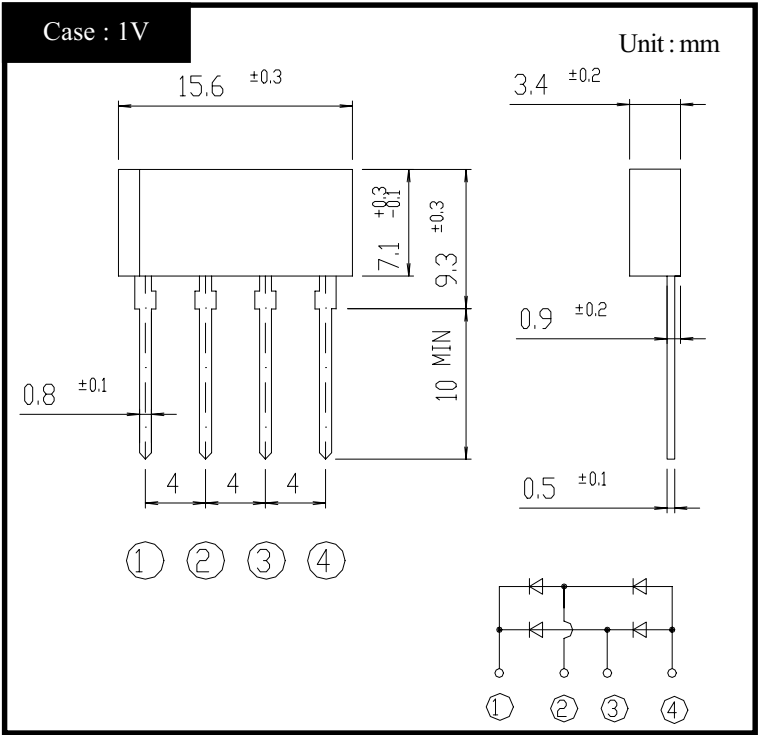
FEATURES

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

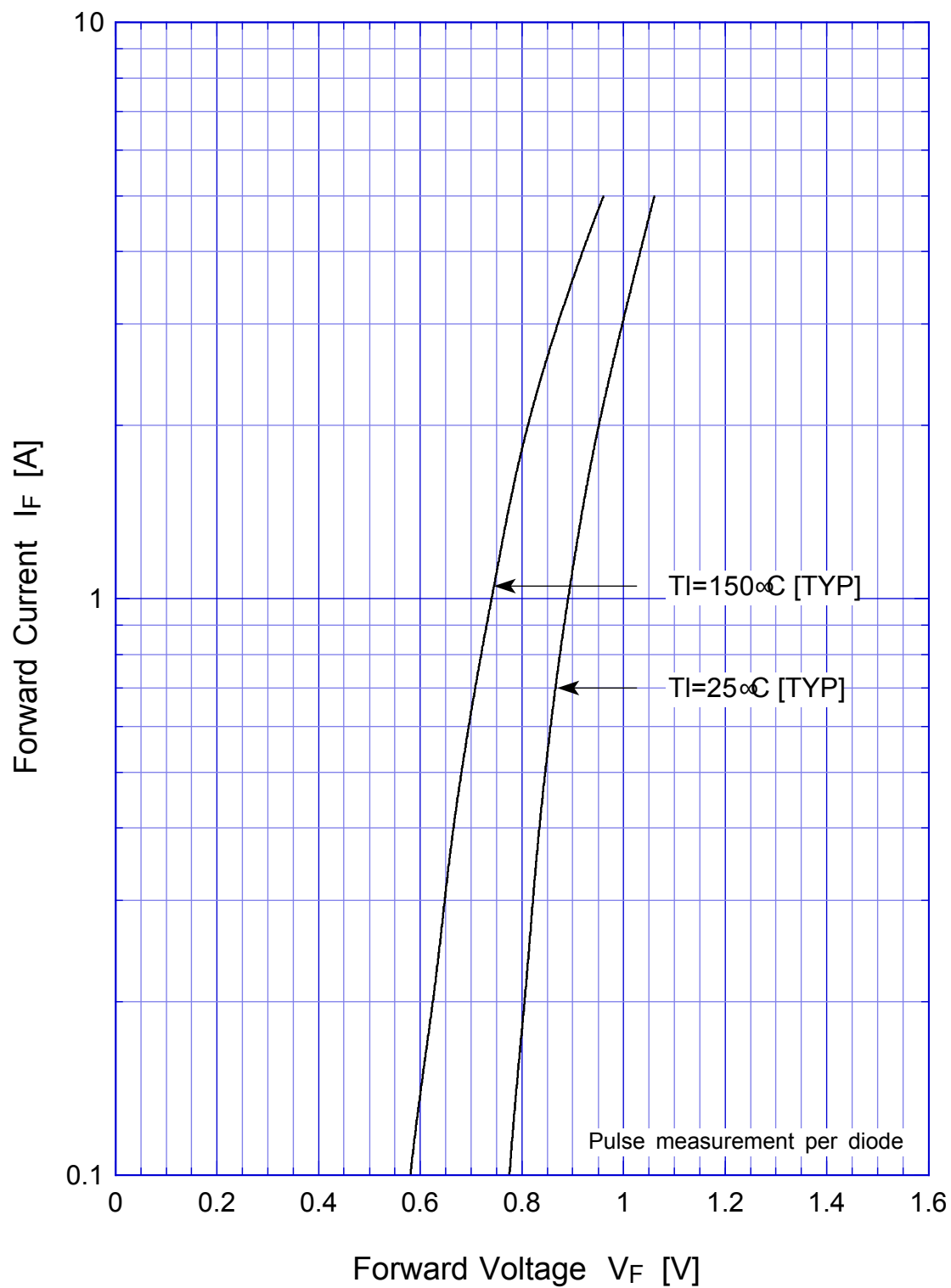
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		$-40\sim150$	$^{\circ}\text{C}$
Operating Junction Temperature	T_j		150	$^{\circ}\text{C}$
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, On glass-epoxy substrate, $T_a=25^{\circ}\text{C}$	1	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^{\circ}\text{C}$	50	A
Current Squared Time	I^2t	$1\text{ms}\leq t<10\text{ms}$ $T_j=25^{\circ}\text{C}$	10	A^2s

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=0.5\text{A}$, 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.16	$^{\circ}\text{C/W}$
	θ_{ja}	junction to ambient	Max.62	

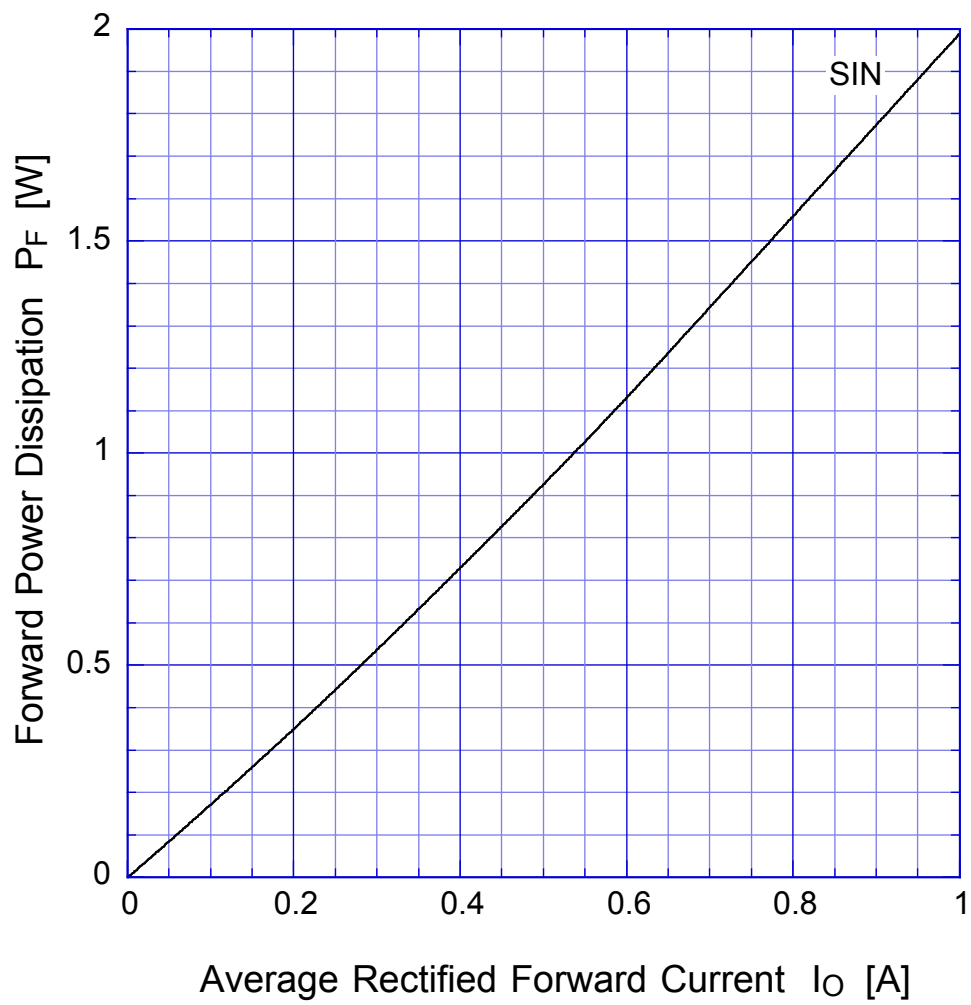
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Forward Voltage



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Forward Power Dissipation

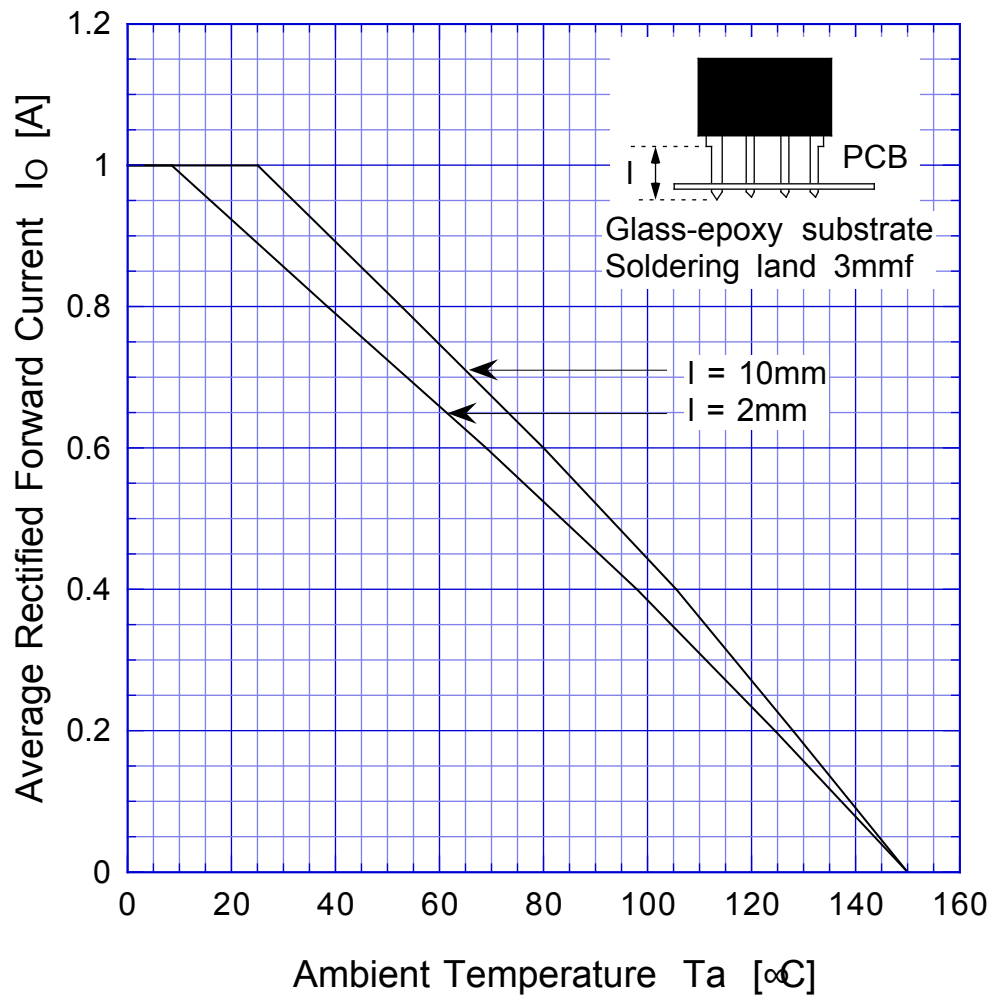


$T_j = 150^{\circ}\text{C}$

Sine wave

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Derating Curve



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

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Peak Surge Forward Capability

