

S1VB20

200V 1A

FEATURES

- Small Single In-Line(:SIL)Package
- High IFSM
- Applicable to Automatic Insertion

APPLICATION

- Switching power supply
- Home Appliance,Office Equipment
- Telecommunication,Factory automation

RATINGS

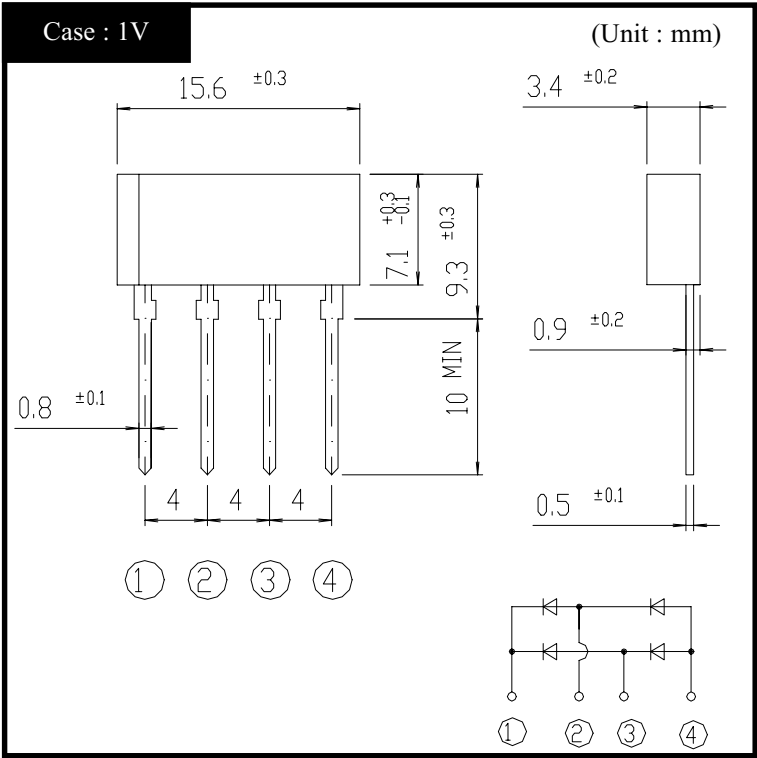
●Absolute Maximum Ratings (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave,R-load ,On glass-epoxy substrate Ta=25°C	1	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave,Non-repetitive 1cycle peak value, Tj=25°C	30	A
Current Squared Time	I ² t	1ms≤t<10ms Tj=25°C	4.5	A ² s

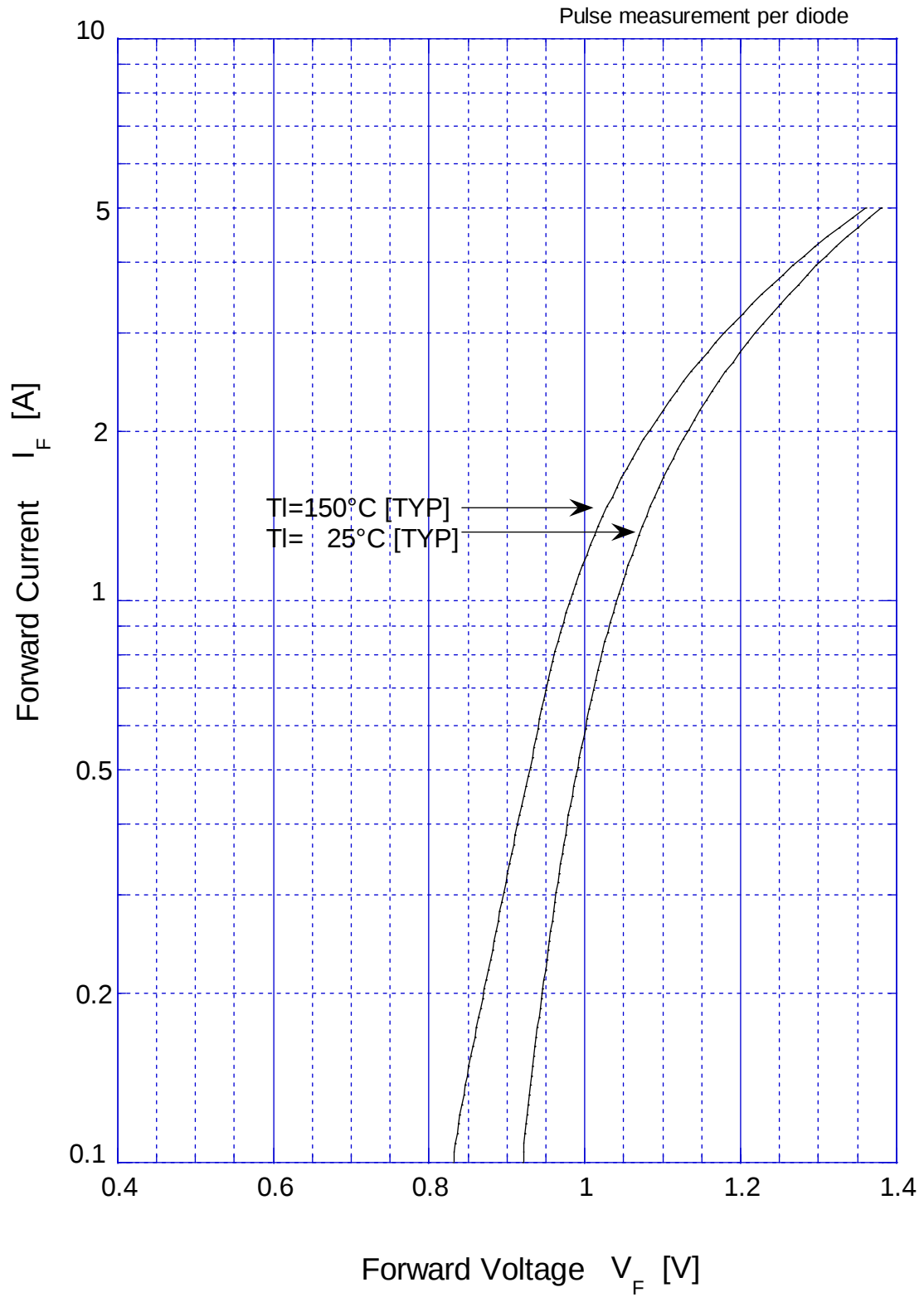
●Electrical Characteristics (If not specified Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	If=0.5A, 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}	unction to lead	Max.16	°C/W
	θ _{ja}	unction to ambient	Max.62	

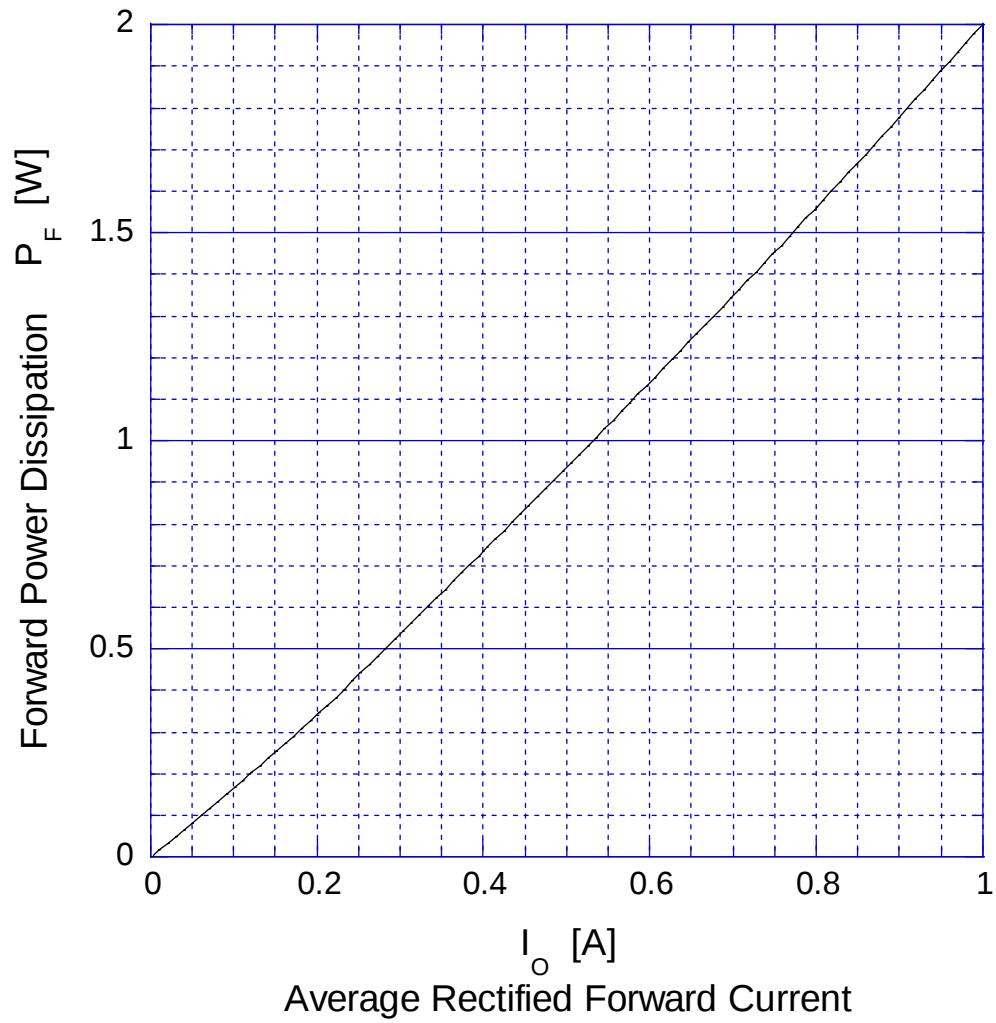
OUTLINE DIMENSIONS



S1VB Forward Voltage

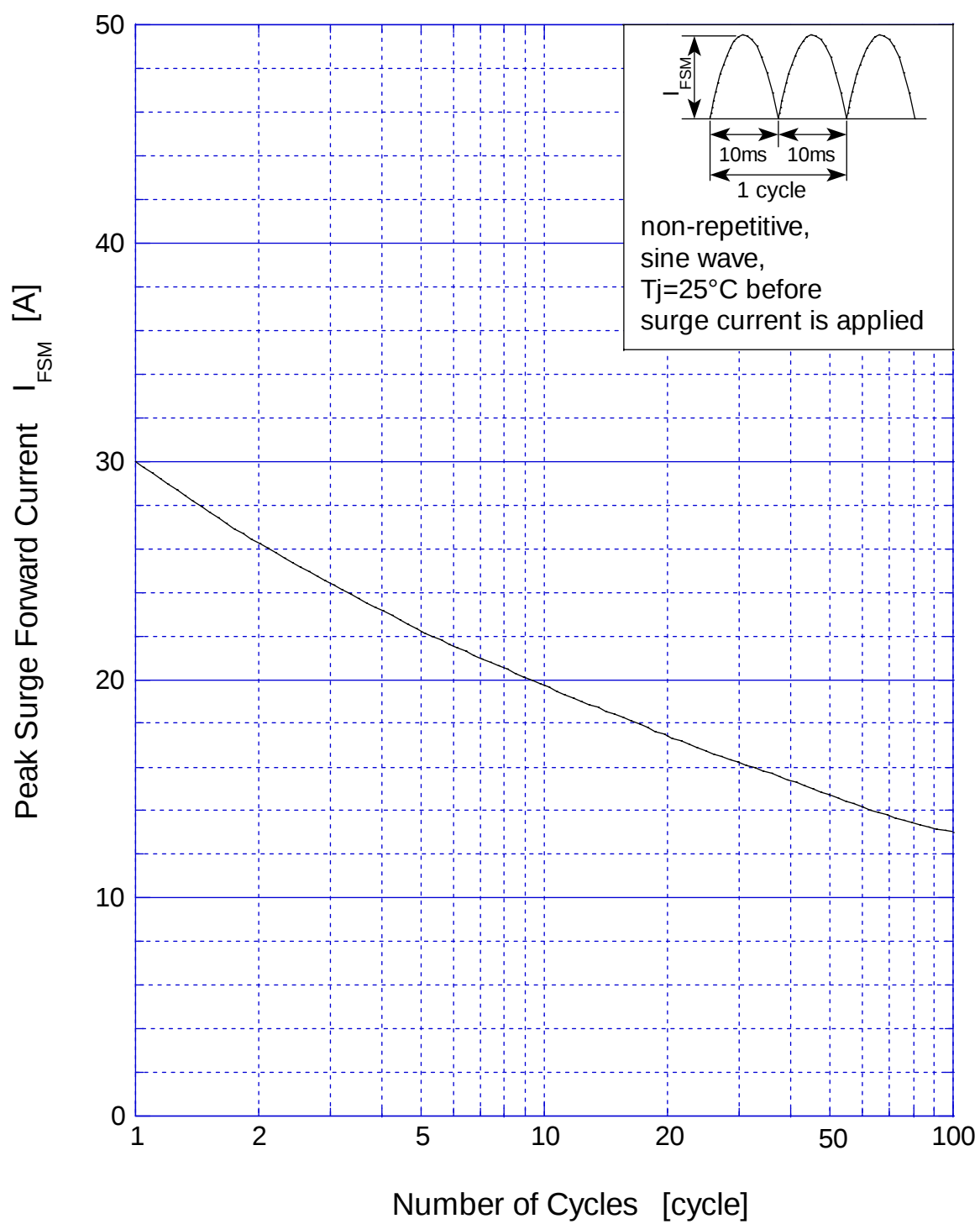


S1VB Forward Power Dissipation



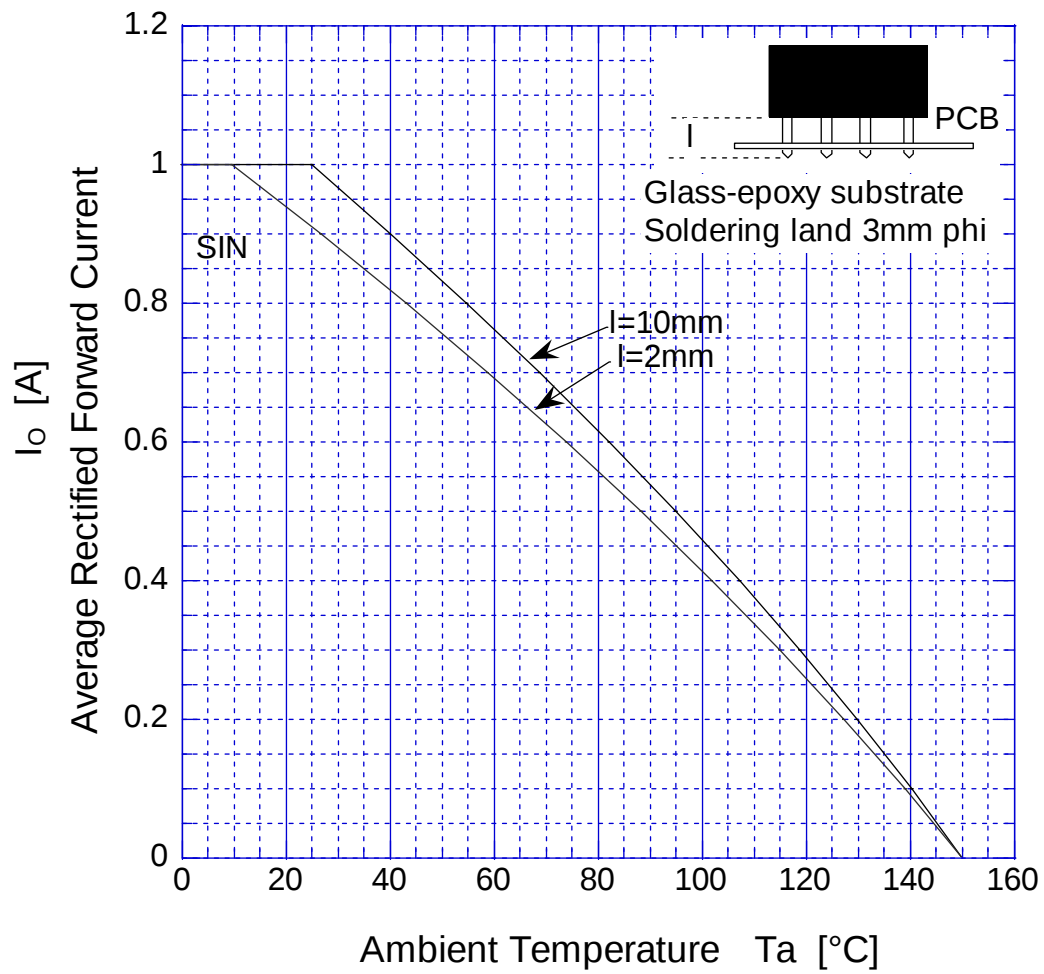
$T_j = 150^\circ\text{C}$
sine wave

S1VB Peak Surge Forward Capability



S1VB

Derating Curve



Sine wave
R - load
free in air