

S1VB80

800V 1A

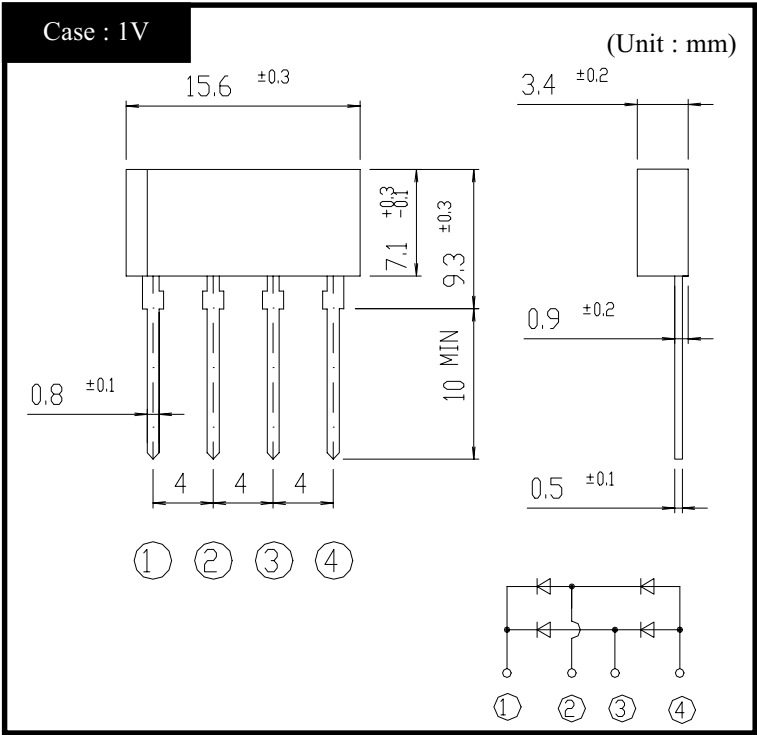
FEATURES

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

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

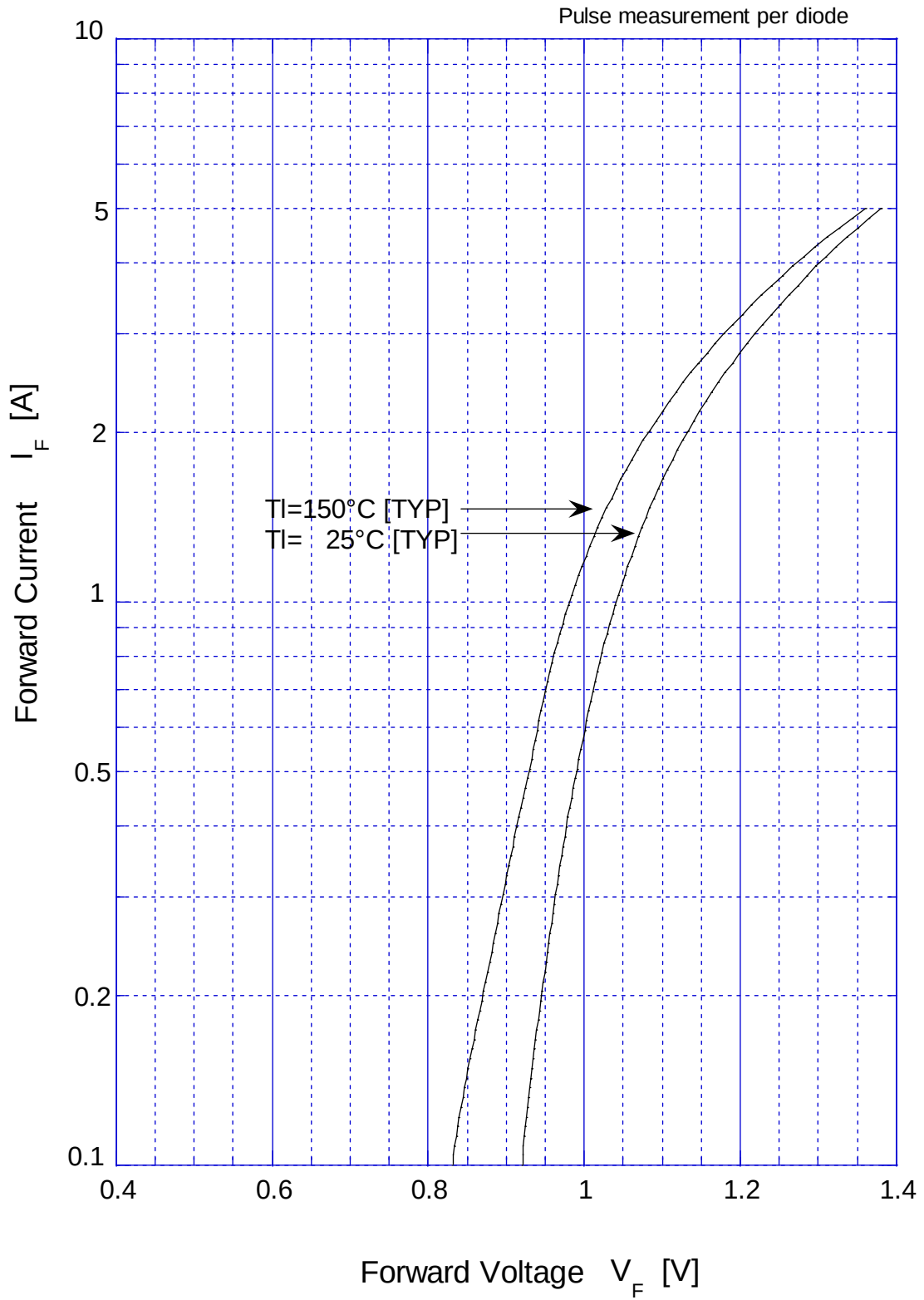
● Absolute Maximum Ratings (If not specified TI=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		800	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

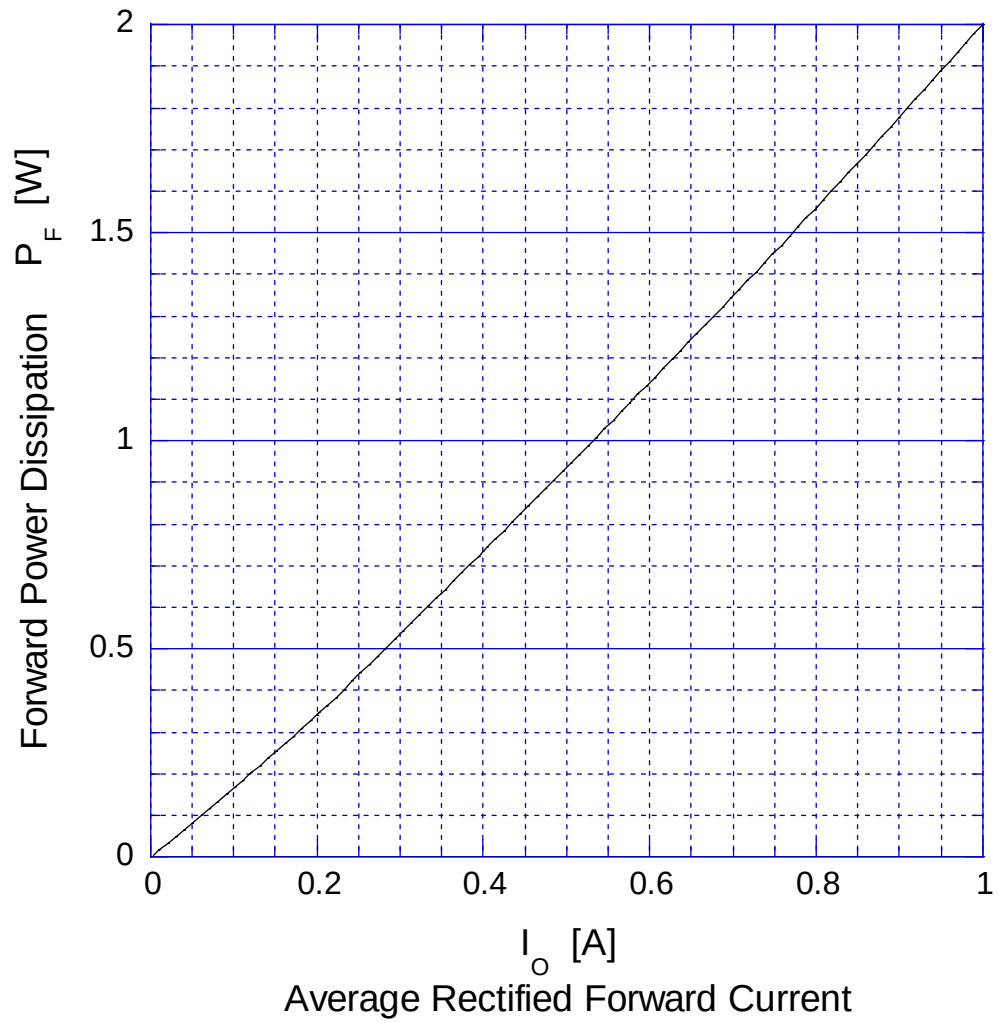
● Electrical Characteristics (If not specified TI=25°C)

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}	junction to lead	Max.16	°C/W
	θ _{ja}	junction to ambient	Max.62	

S1VB Forward Voltage

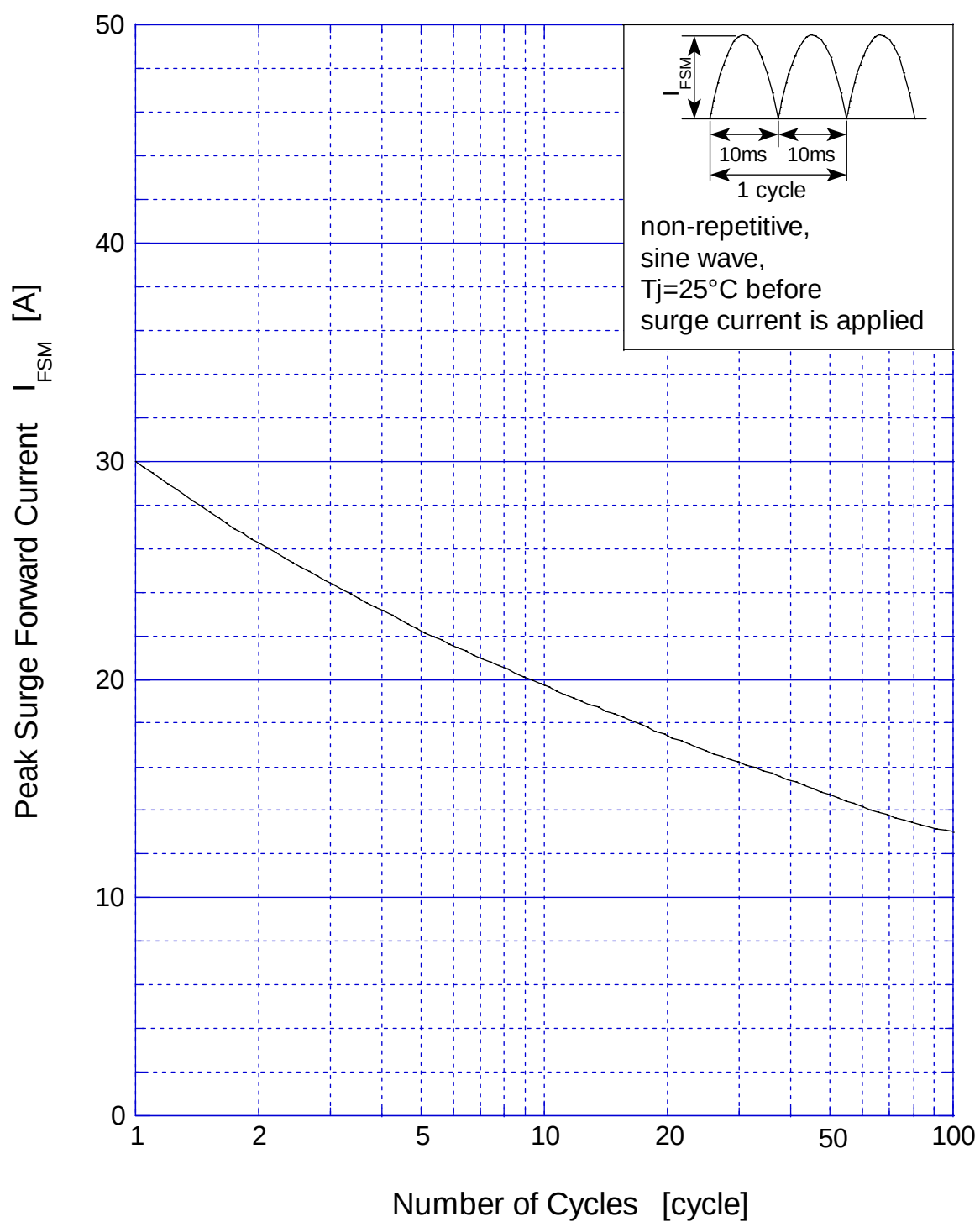


S1VB Forward Power Dissipation



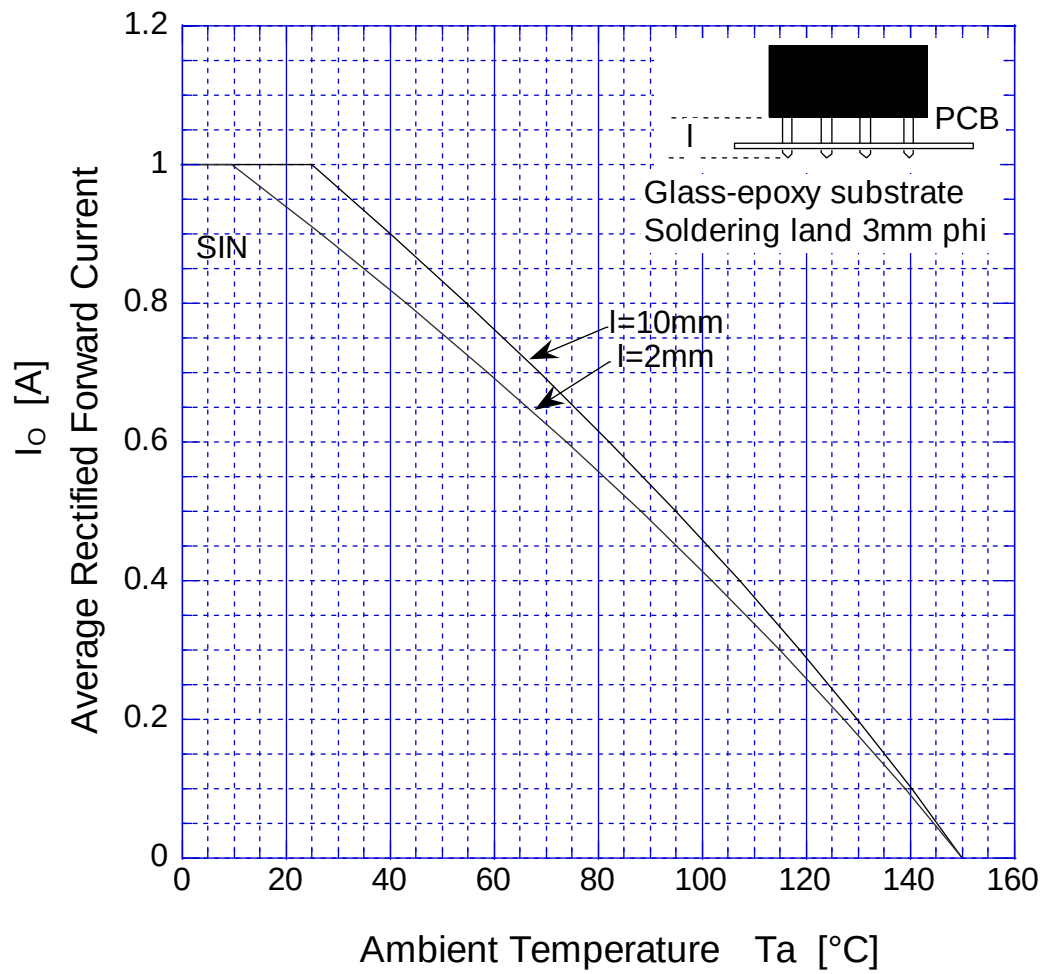
$T_j = 150^\circ\text{C}$
sine wave

S1VB Peak Surge Forward Capability



S1VB

Derating Curve



Sine wave
R - load
free in air