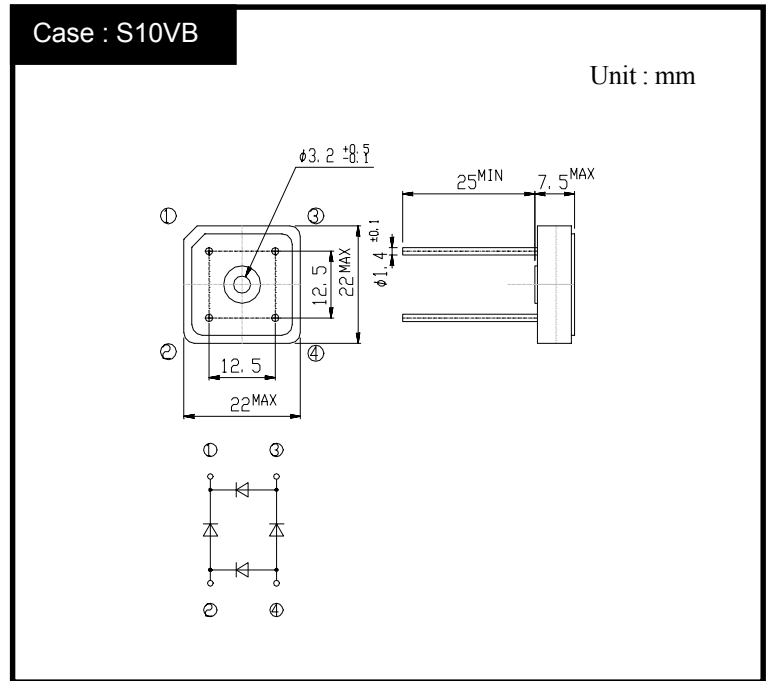


S10VB20

200V 10A

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

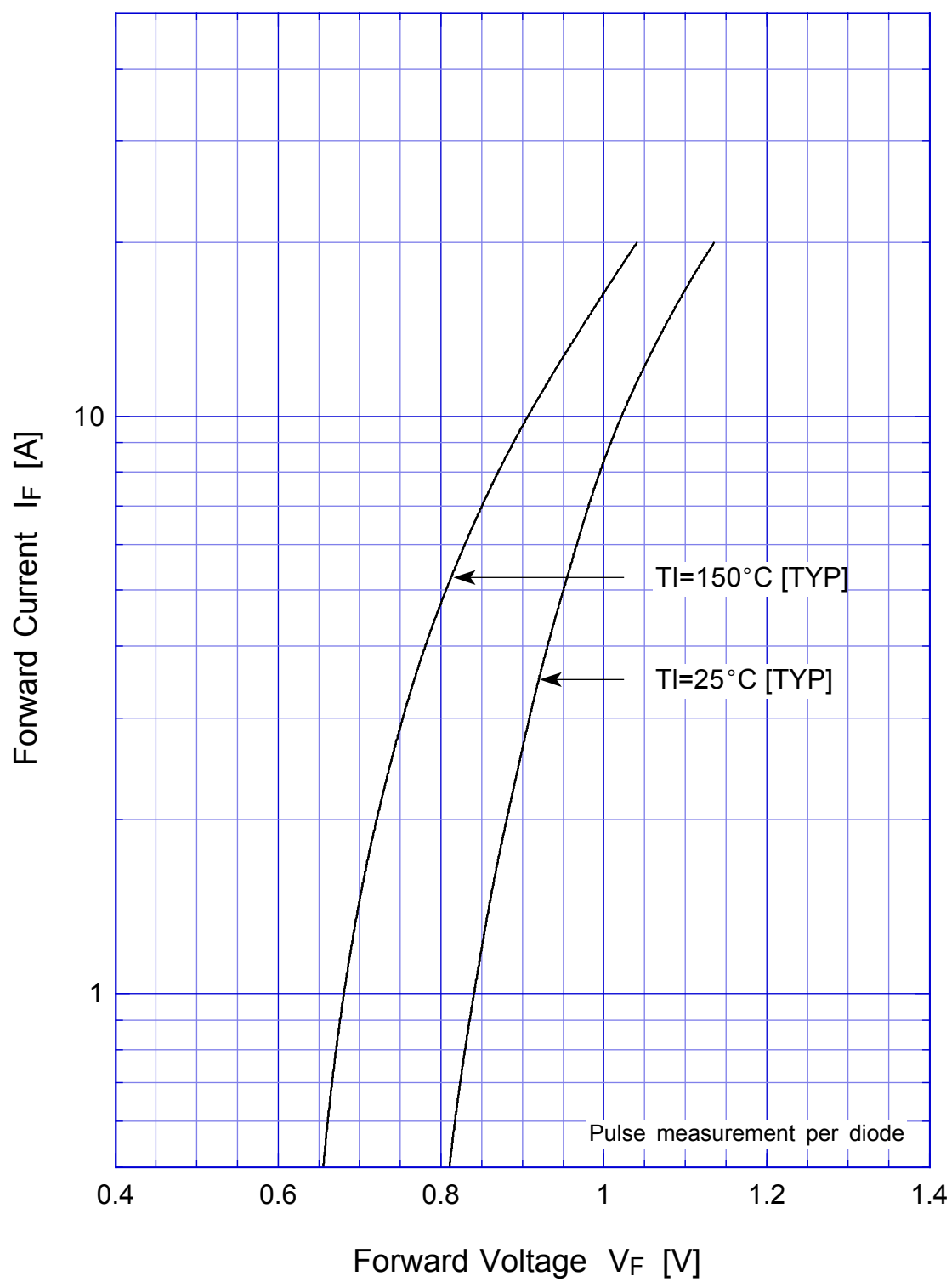
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-40~150	°C
Operating Junction Temperature	T_j		150	°C
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, $T_a=40^\circ\text{C}$ With heatsink, $\theta_{fa}=2.4^\circ\text{C/W}$	10	A
		50Hz sine wave, R-load, $T_a=40^\circ\text{C}$ Without heatsink	3.7	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^\circ\text{C}$	200	A
Current Squared Time	I^2t	$1\text{ms} \leq t < 10\text{ms}$ $T_c=25^\circ\text{C}$	110	A^2s
Dielectric Strength	V_{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

● Electrical Characteristics (Tl=25°C)

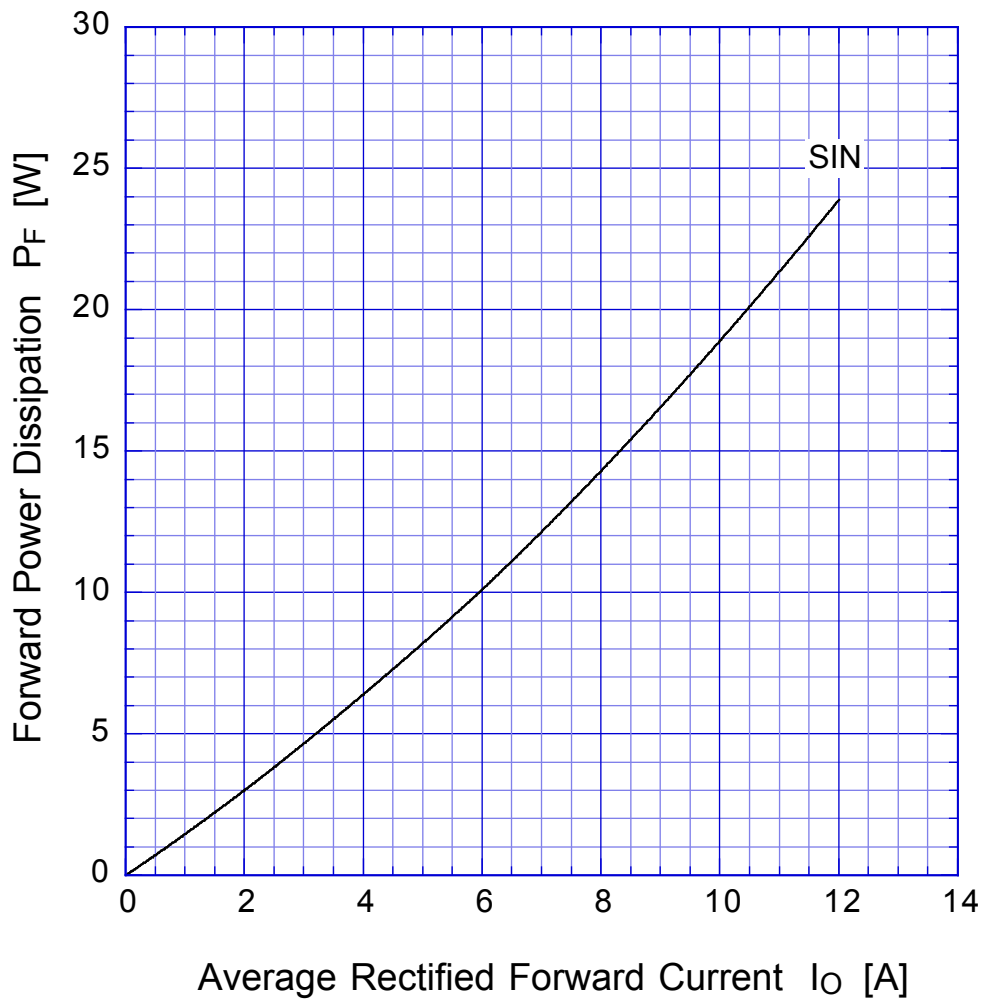
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=5\text{A}$, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ_{jl}	junction to lead	Max.2.8	°C/W

S10VBx

Forward Voltage



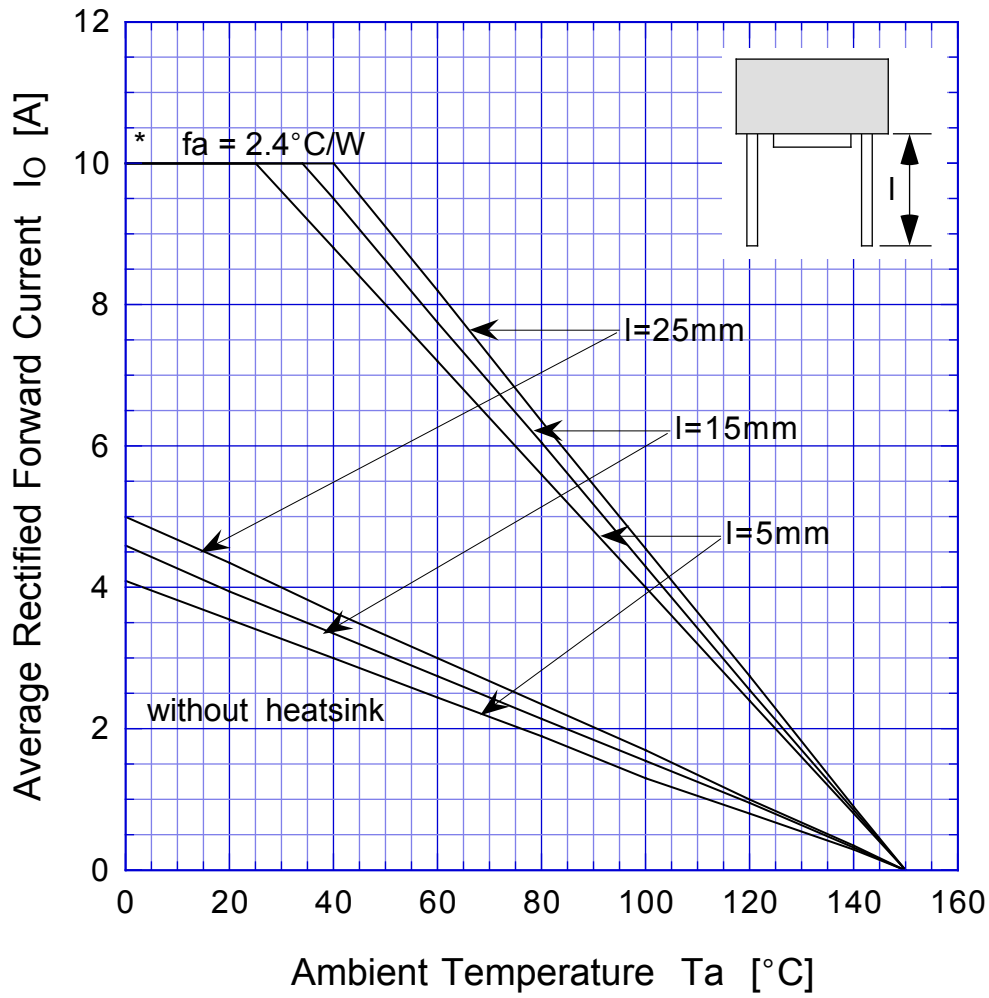
S10VBx Forward Power Dissipation



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

S10VBx

Derating Curve



Sine wave

R-load

Free in air

* with thermal compound, TOR=5kg-cm

S10VBx

Peak Surge Forward Capability

