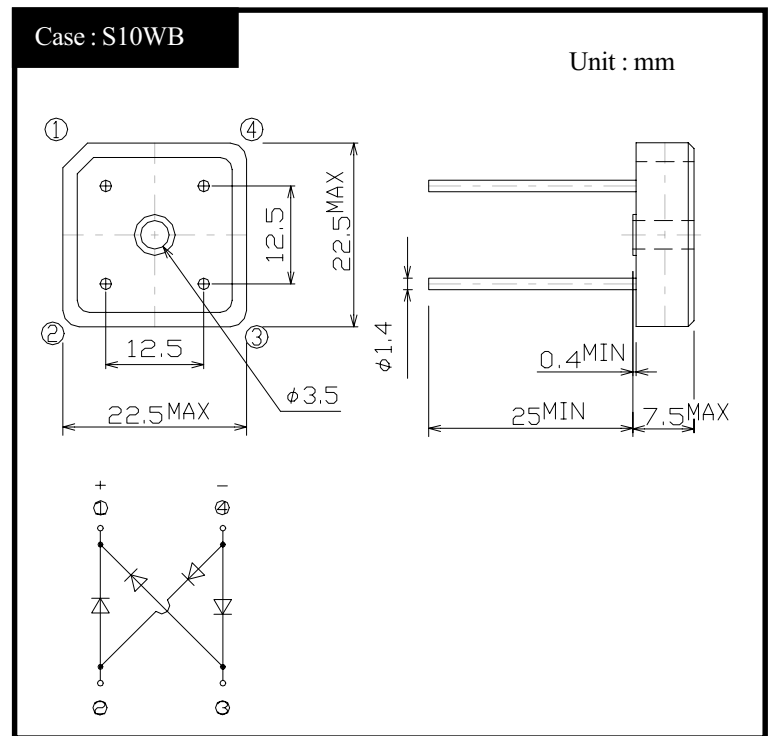


S10WB20

200V 10A

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

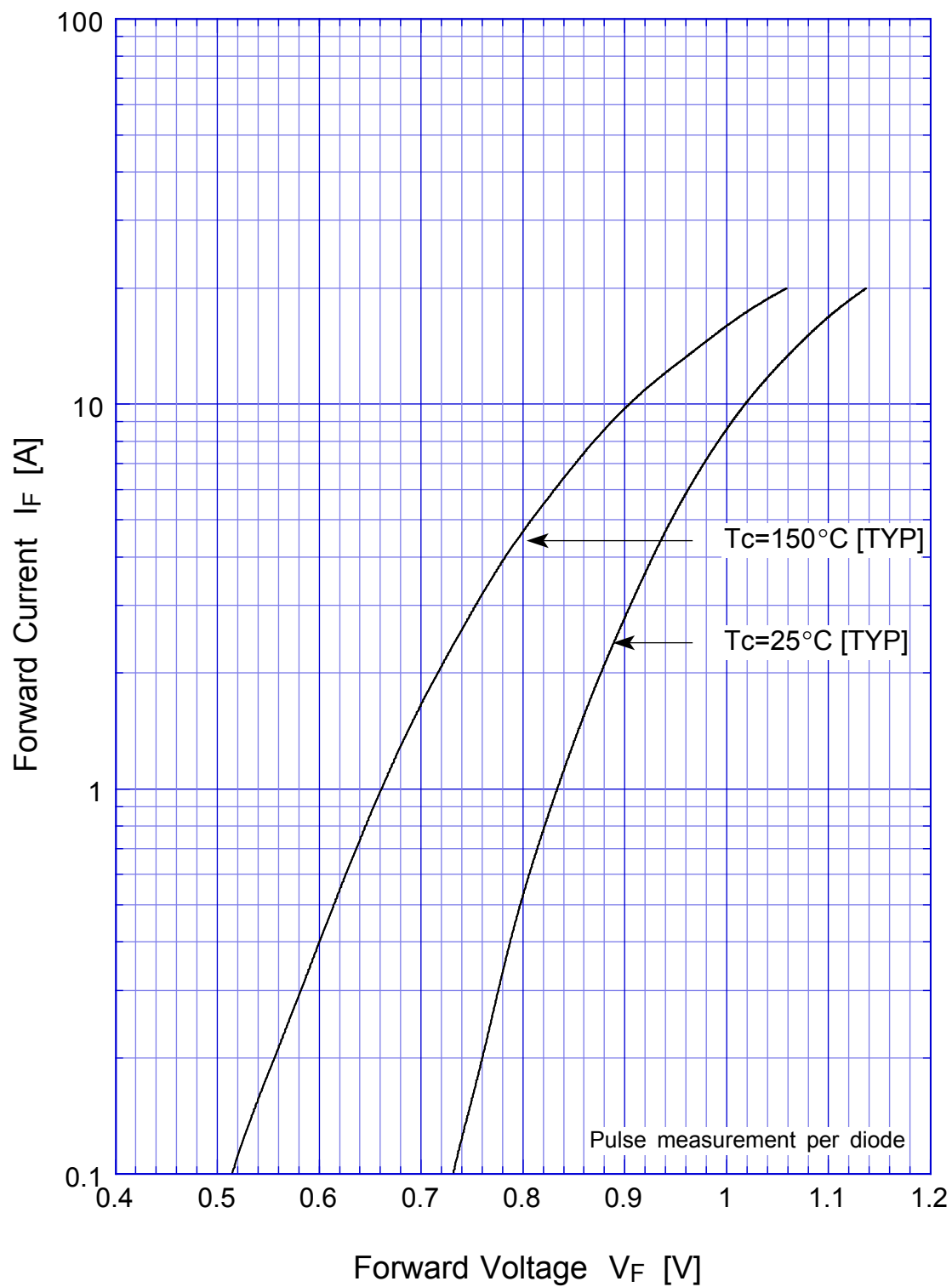
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=74℃	10	A
		50Hz sine wave, R-load Without heatsink Ta=25℃	3.2	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25℃	170	A
Current Squared Time	I ² t	1ms≤t<10ms Tj=25℃	110	A ² s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

● Electrical Characteristics (T_c=25°C)

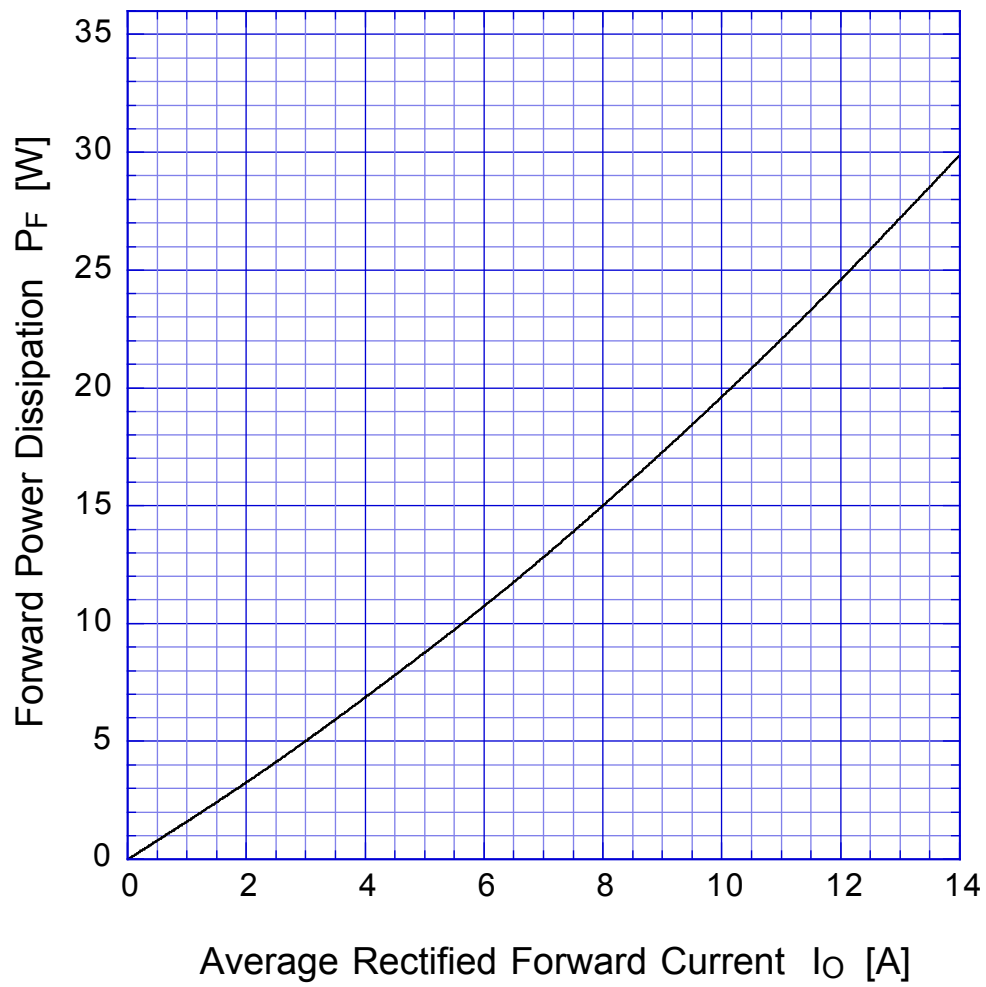
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=5A$, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ_{jc}	junction to case, With heatsink	Max.3.9	$^{\circ}C/W$
	θ_{jl}	junction to lead, Without heatsink	Max.4	
	θ_{ja}	junction to ambient, Without heatsink	Max.24	

S10WBx

Forward Voltage



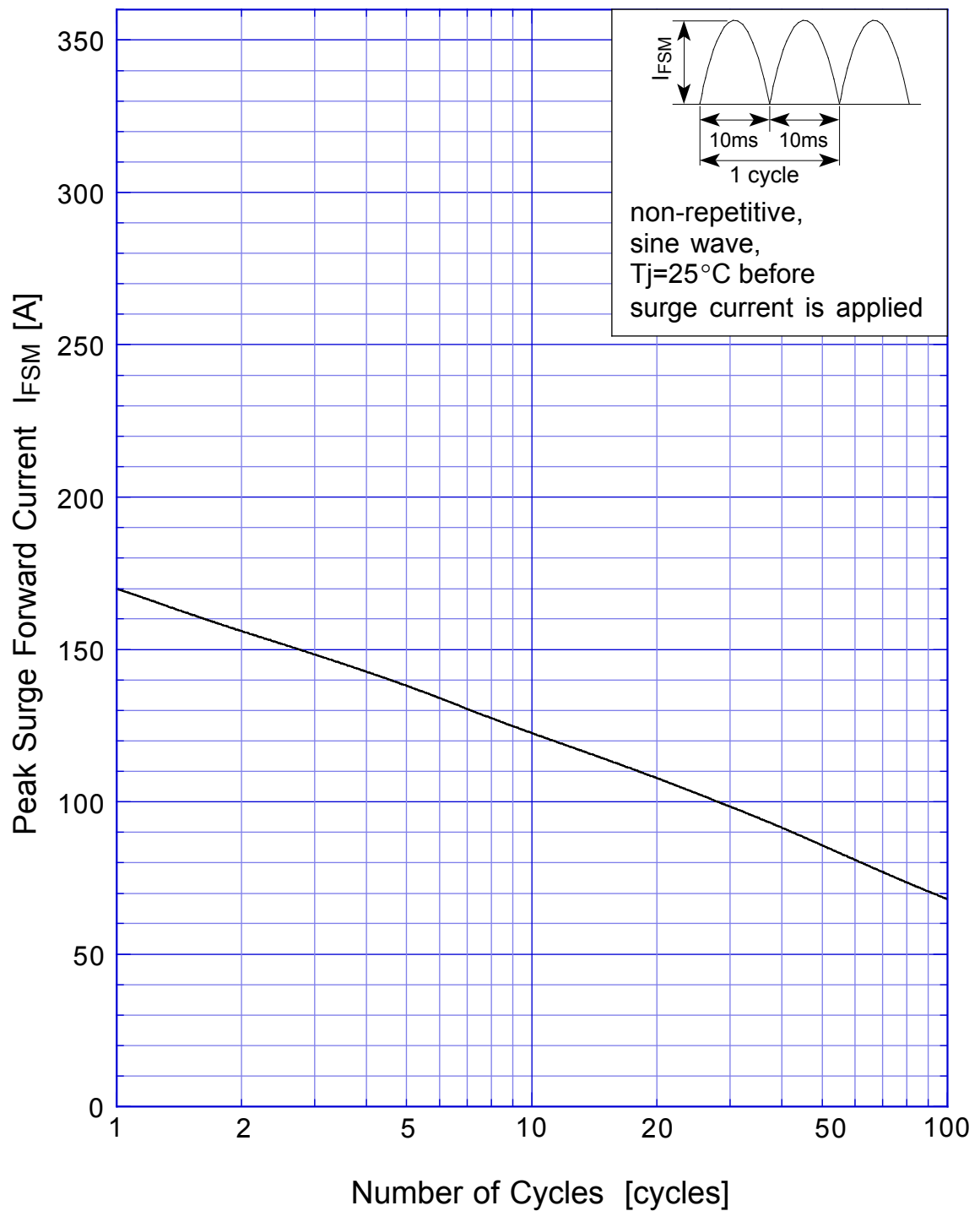
S10WBx Forward Power Dissipation



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

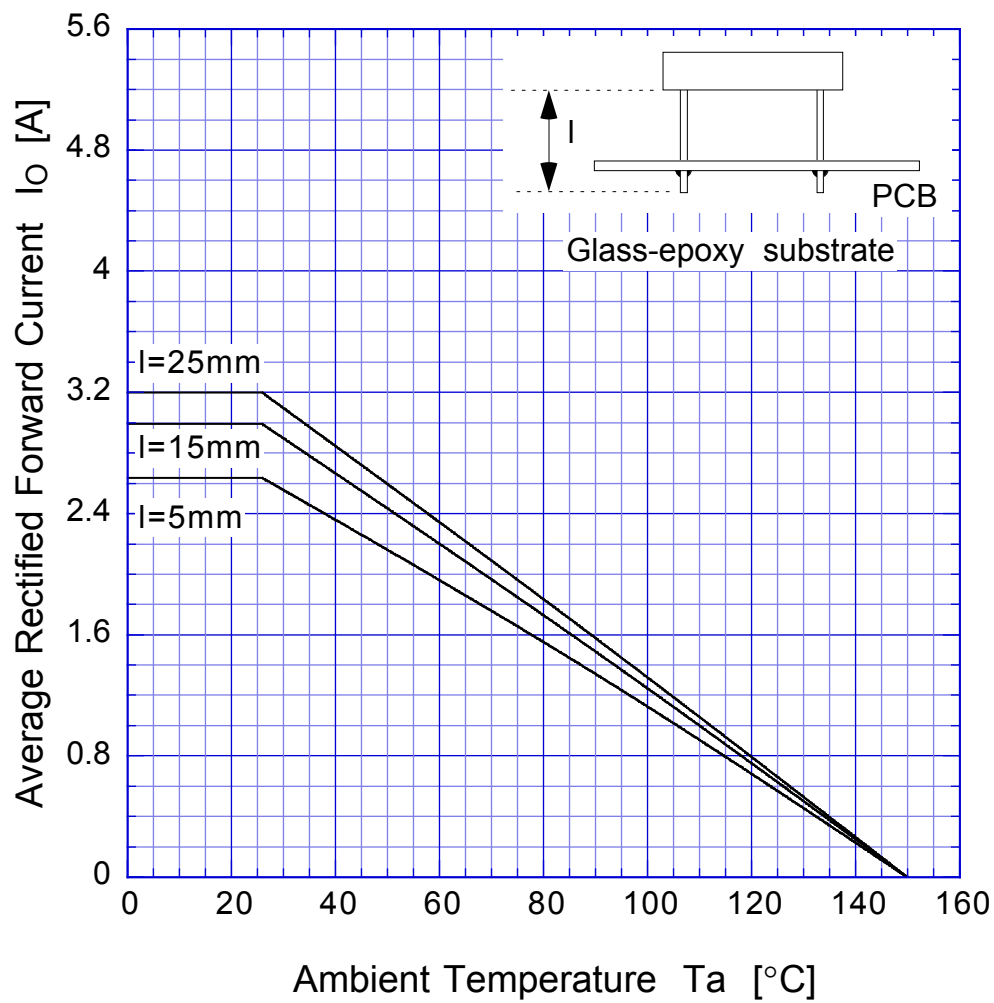
S10WBx

Peak Surge Forward Capability



S10WBx

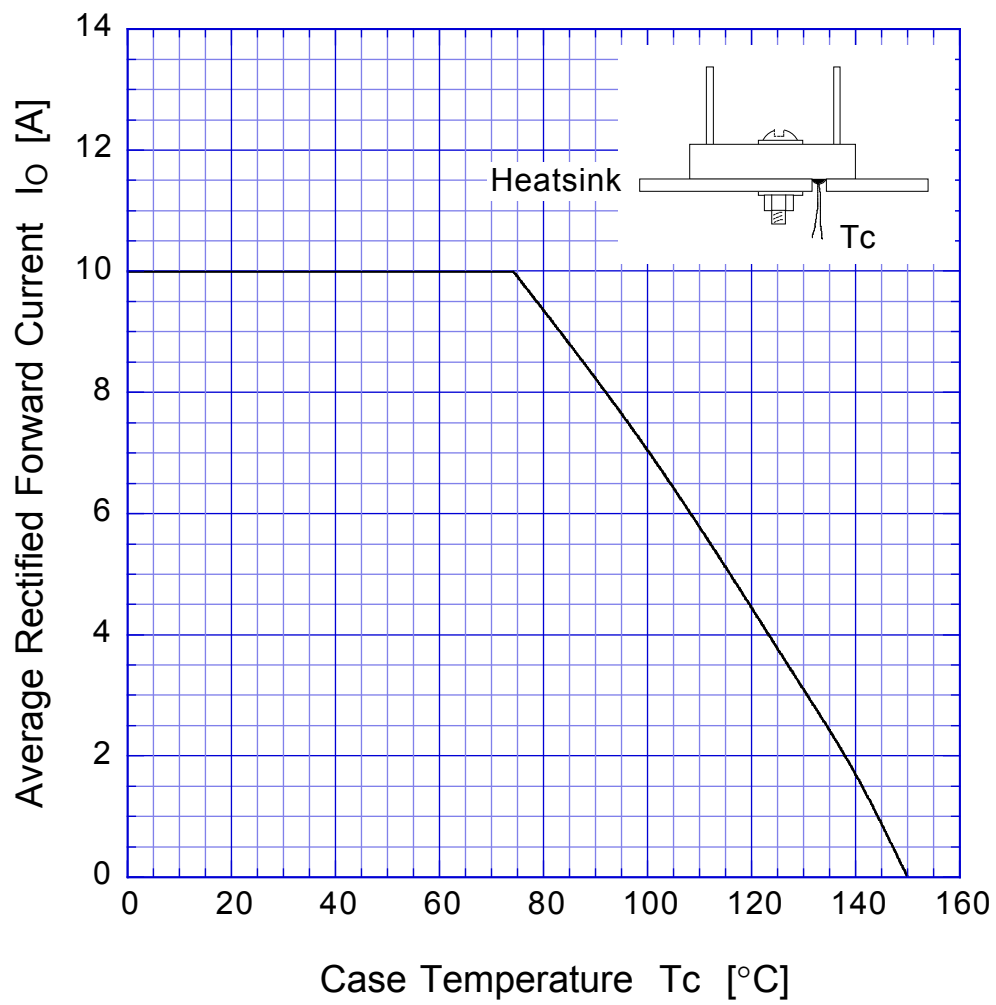
Derating Curve



Sine wave
R-load
Free in air
no heatsink

S10WBx

Derating Curve



Sine wave
R-load