

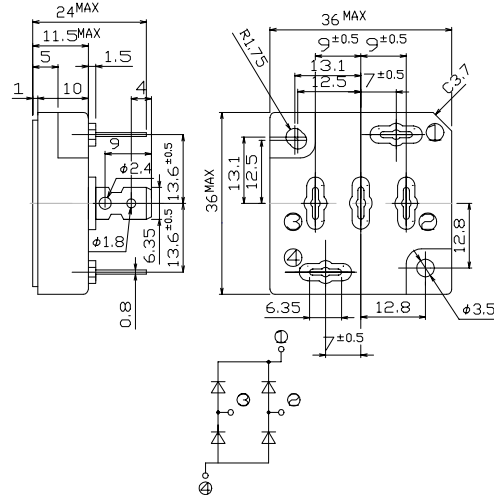
S50VB60

600V 50A

OUTLINE DIMENSIONS

Case : S50VB

Unit : mm



RATINGS

- Absolute Maximum Ratings

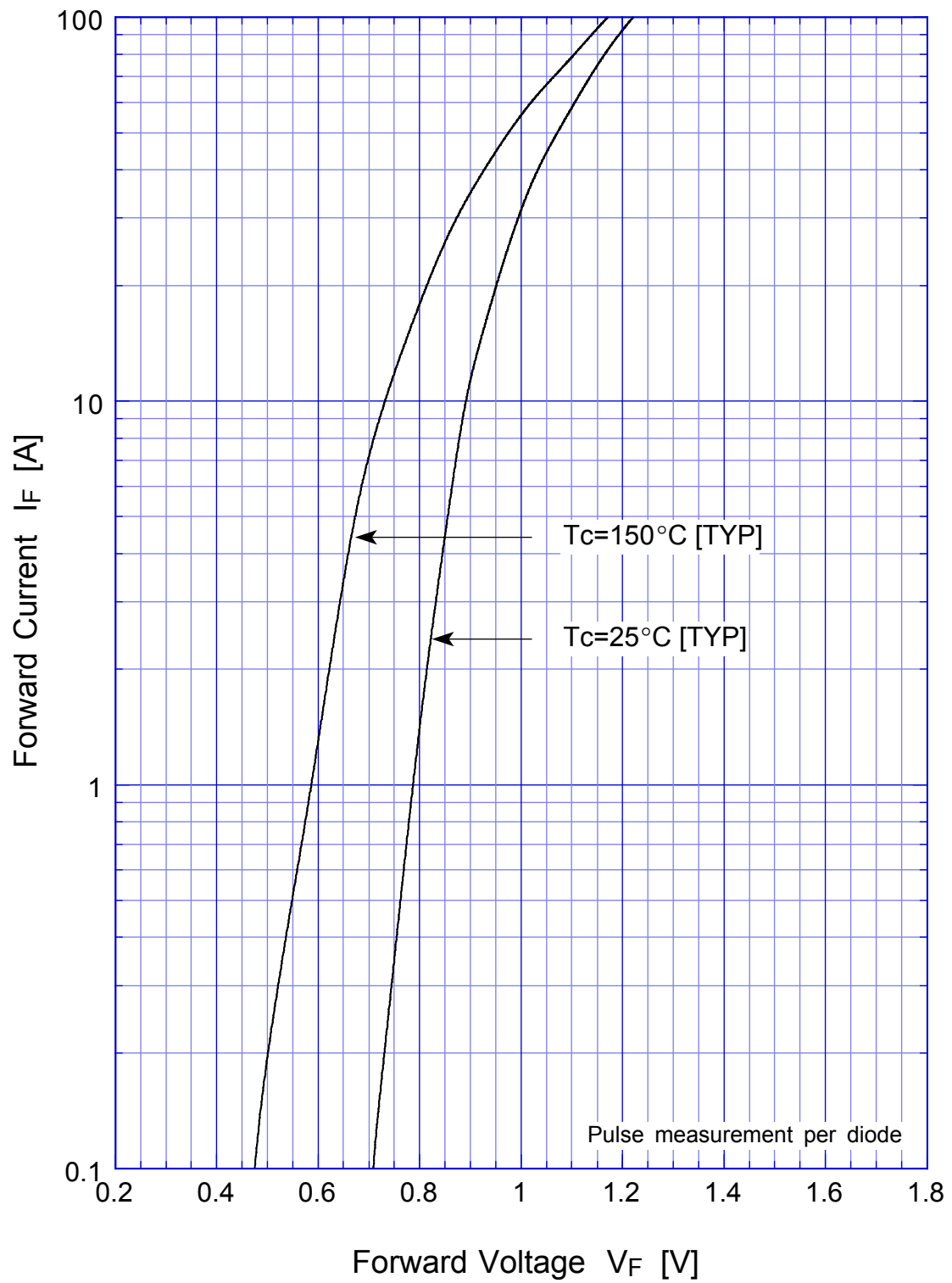
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~150	℃
Operating Junction Temperature	T _j		150	℃
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, With heatsink, T _c =95℃	50	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, T _j =25℃	500	A
Current Squared Time	I ² t	1ms≤t<10ms T _j =25℃	800	A ² s
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.6N·m)	0.8	N·m

● Electrical Characteristics (T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=25A$, 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	Max.0.5	$^{\circ}C/W$

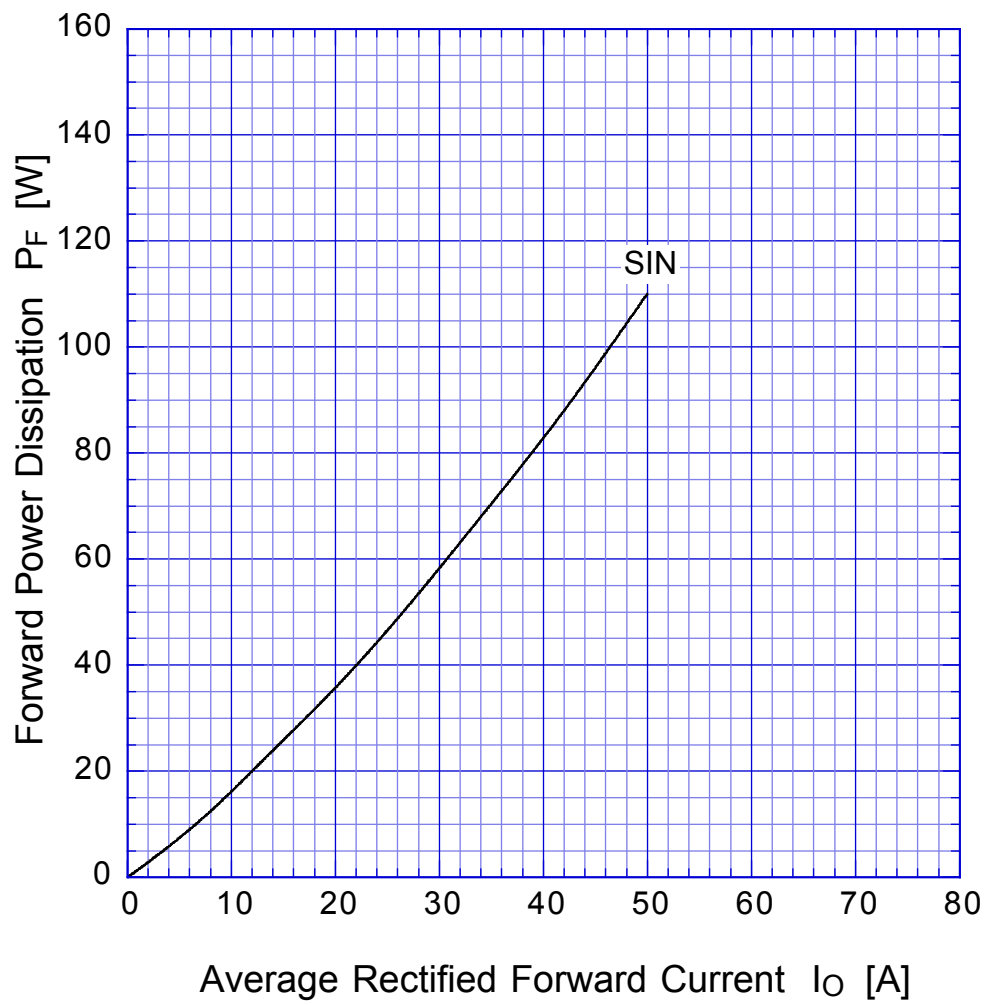
S50VBx

Forward Voltage



S50VBx

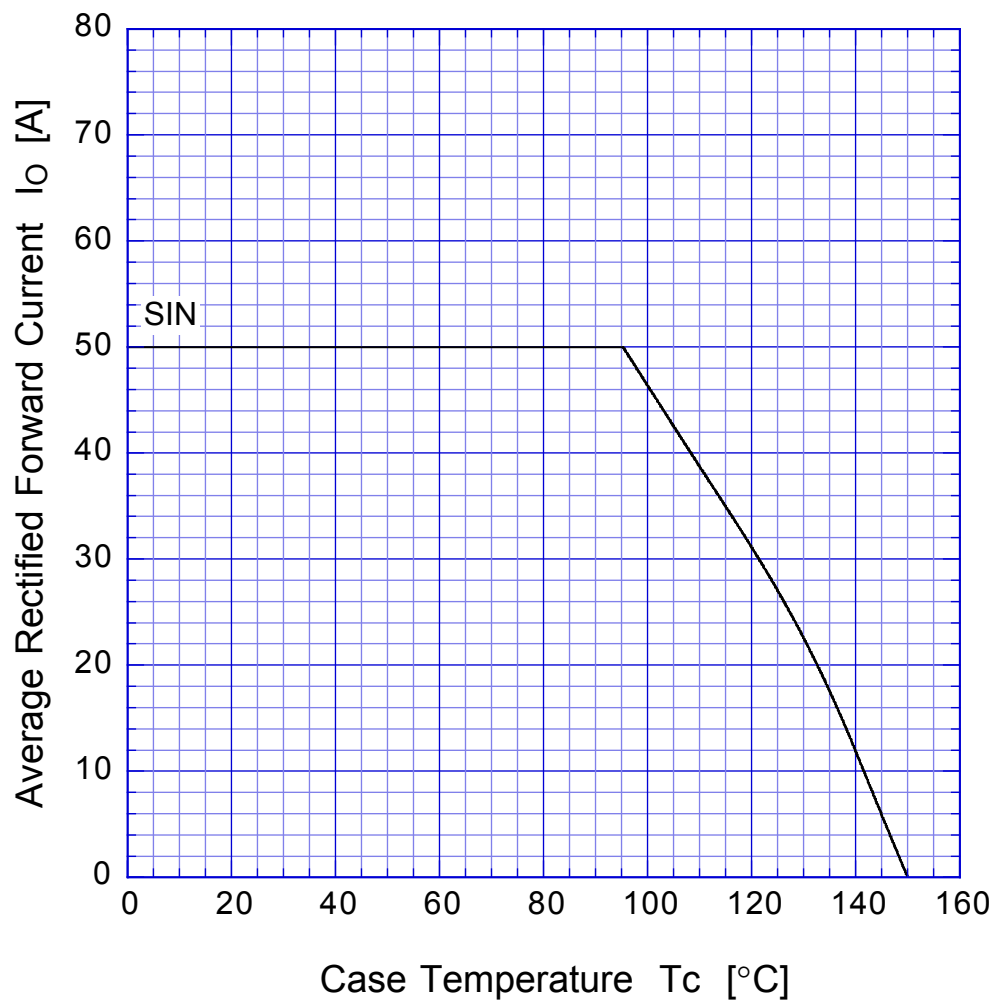
Forward Power Dissipation



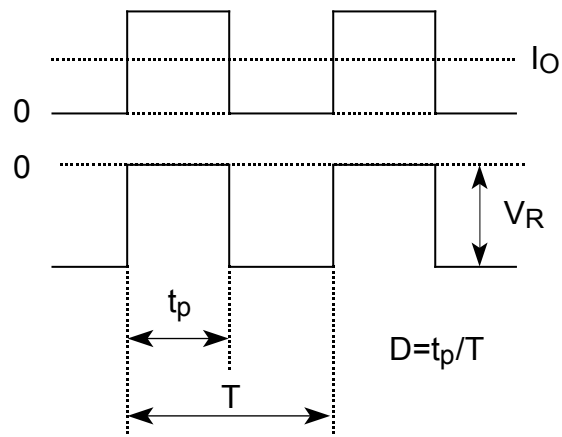
$T_j = T_{jmax}$

S50VBx

Derating Curve



$$V_R = V_{RM}$$



S50VBx

Peak Surge Forward Capability

