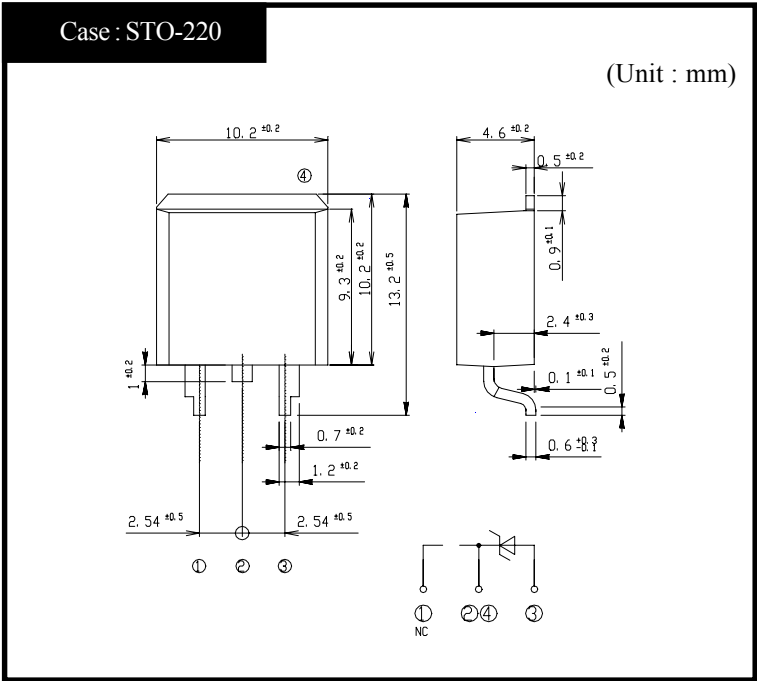


ST70-27F

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings

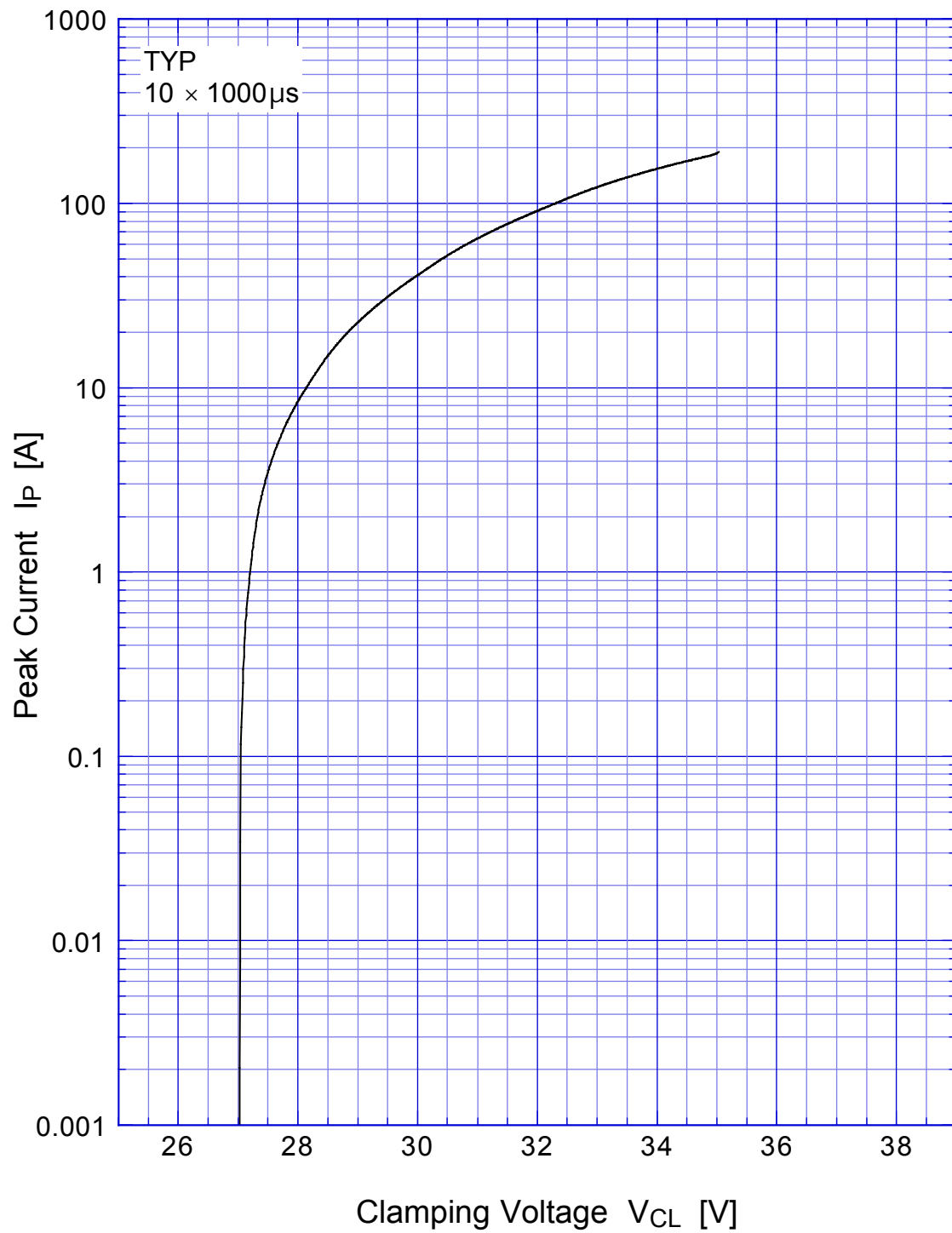
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-40~150	°C
Junction Temperature	T <sub>j</sub>		150	°C
Peak Surge Reverse Power	P <sub>RSM</sub>	10/1000 μ s, Non-repetitive	7000	W
Peak Surge Reverse Current	I <sub>RSM</sub>	10/1000 μ s, Non-repetitive	180	A
Maximum Reverse Voltage	V <sub>RM</sub>		23	V

●Electrical Characteristics (Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Breakdown Voltage	V <sub>BR</sub>	I <sub>R</sub> = 1mA	24.3~29.7	V
Clamping Voltage	V <sub>CL</sub>	I <sub>PP</sub> = 180A	MAX 40	V
Off-State Current	I <sub>R</sub>	V <sub>R</sub> = V <sub>RM</sub>	MAX 5	μ A

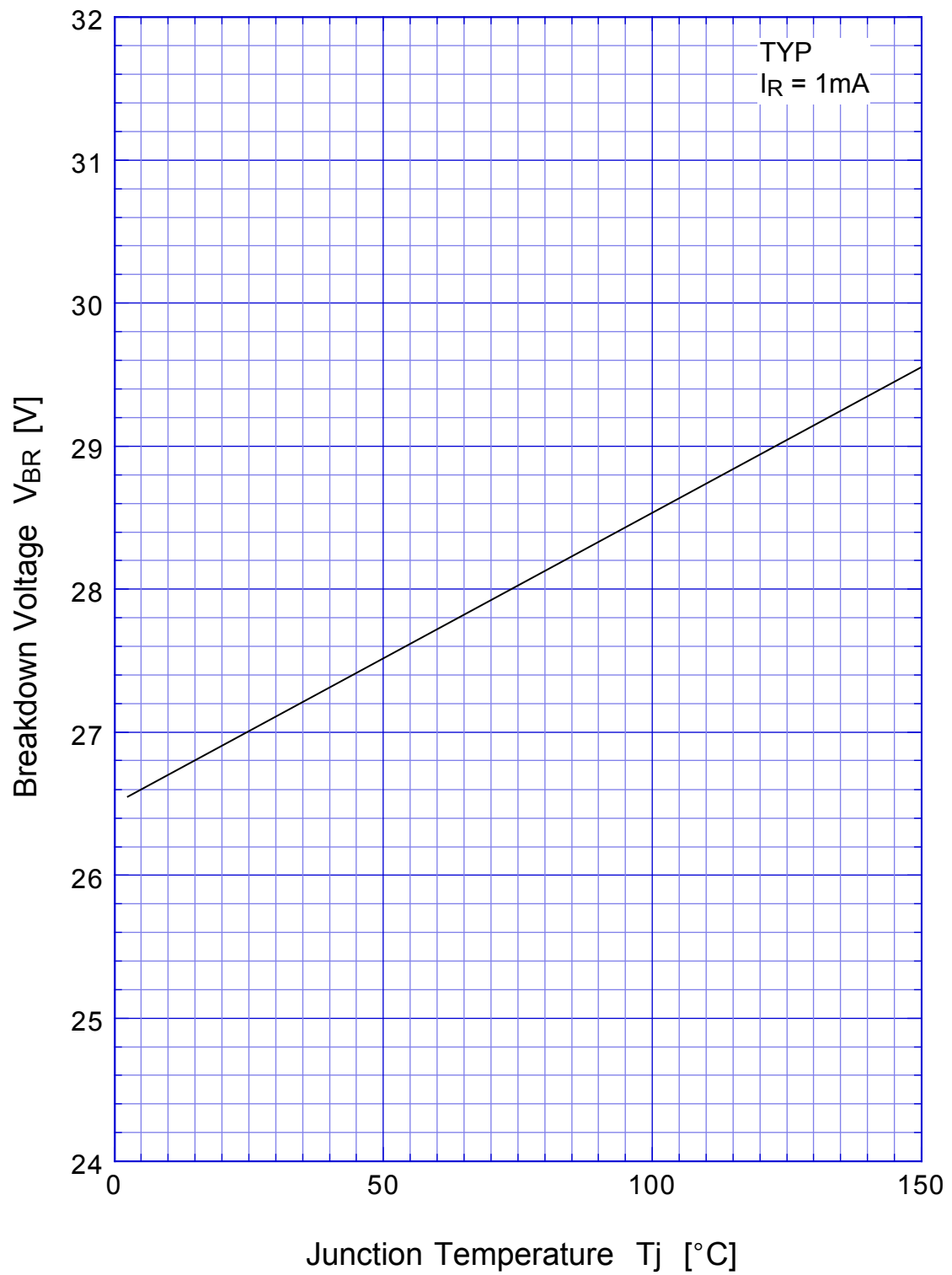
ST70-27F

Clamping Voltage



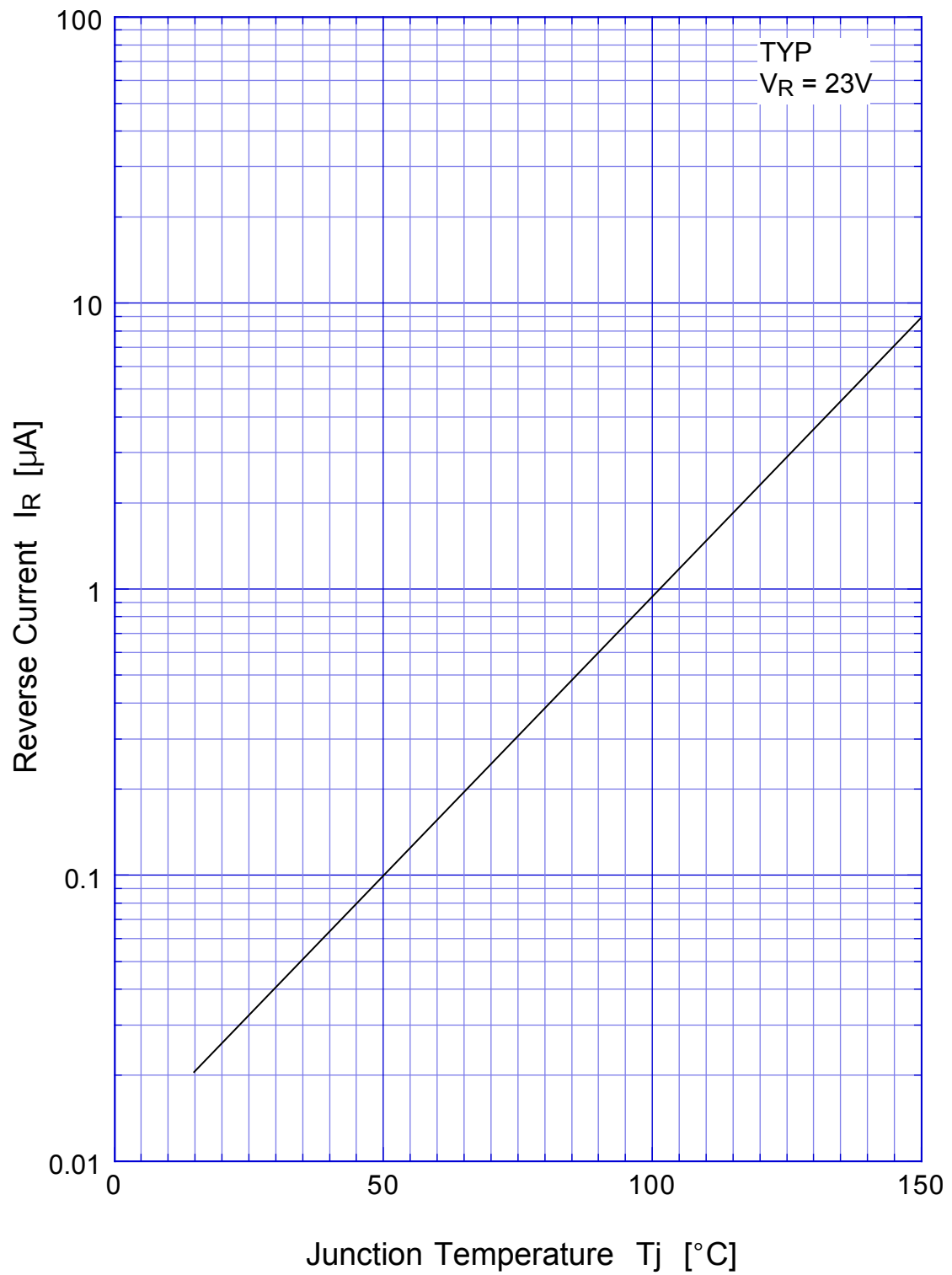
ST70-27F

Breakdown Voltage



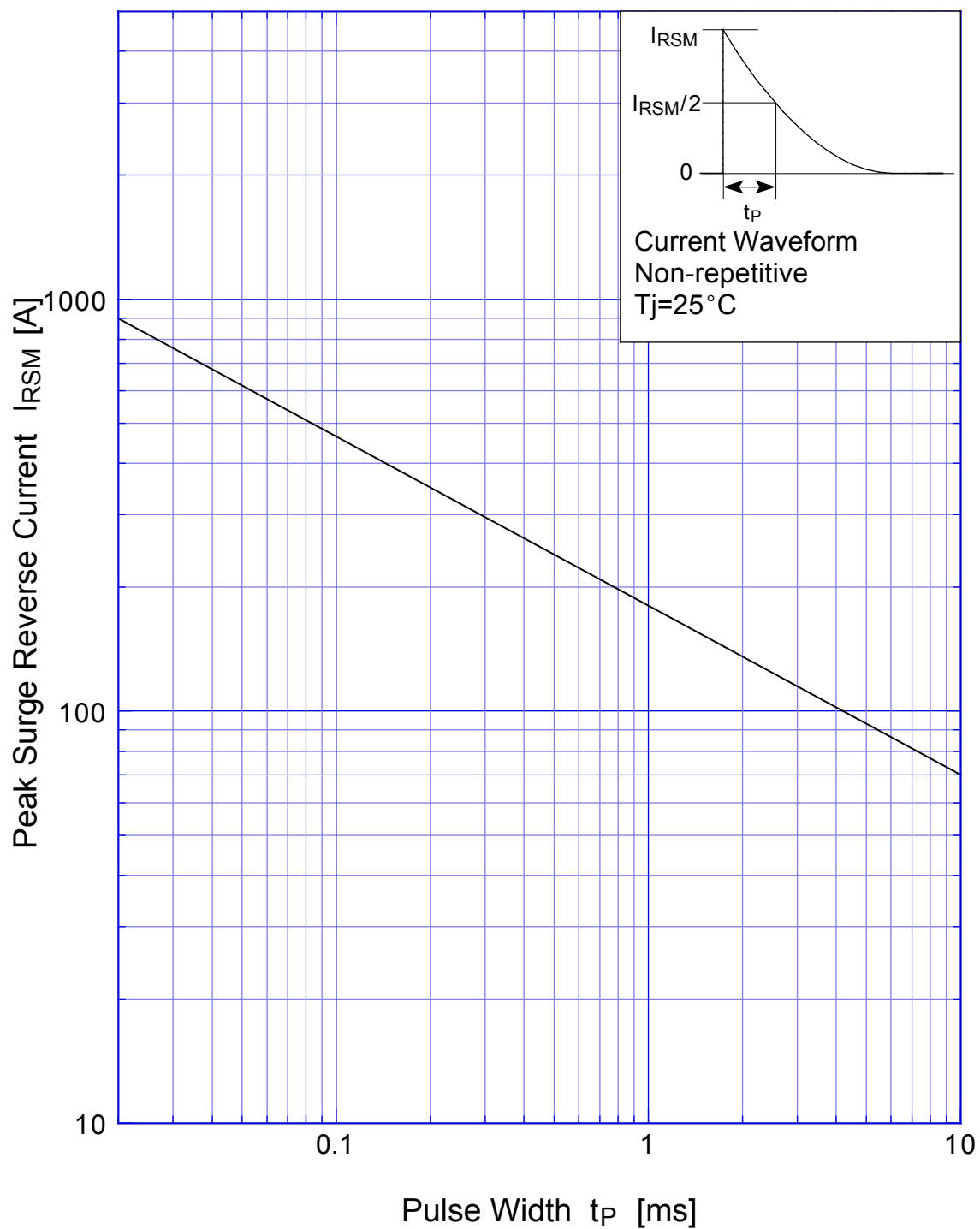
ST70-27F

Reverse Current



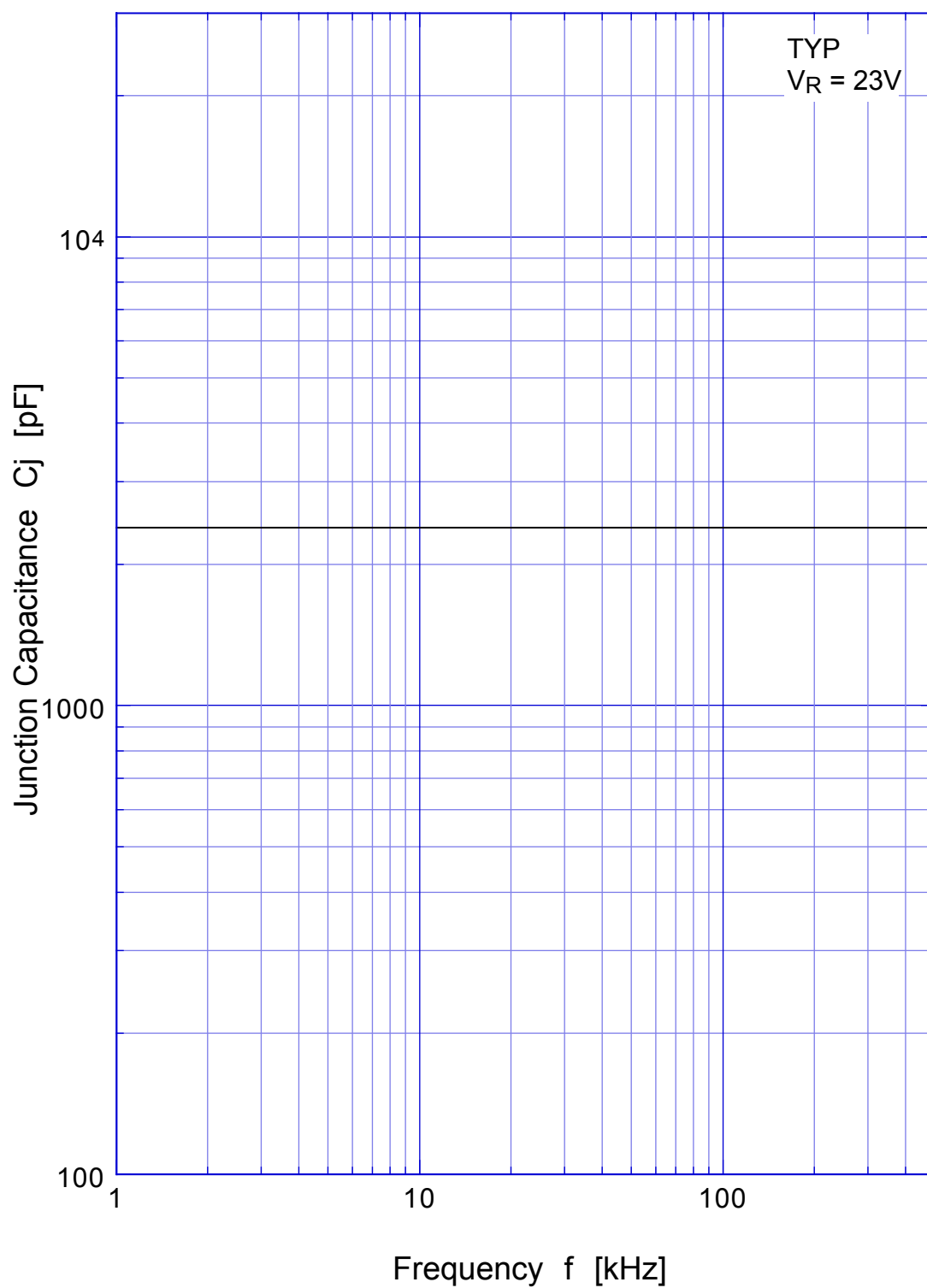
ST70-27F

Peak Surge Reverse Current



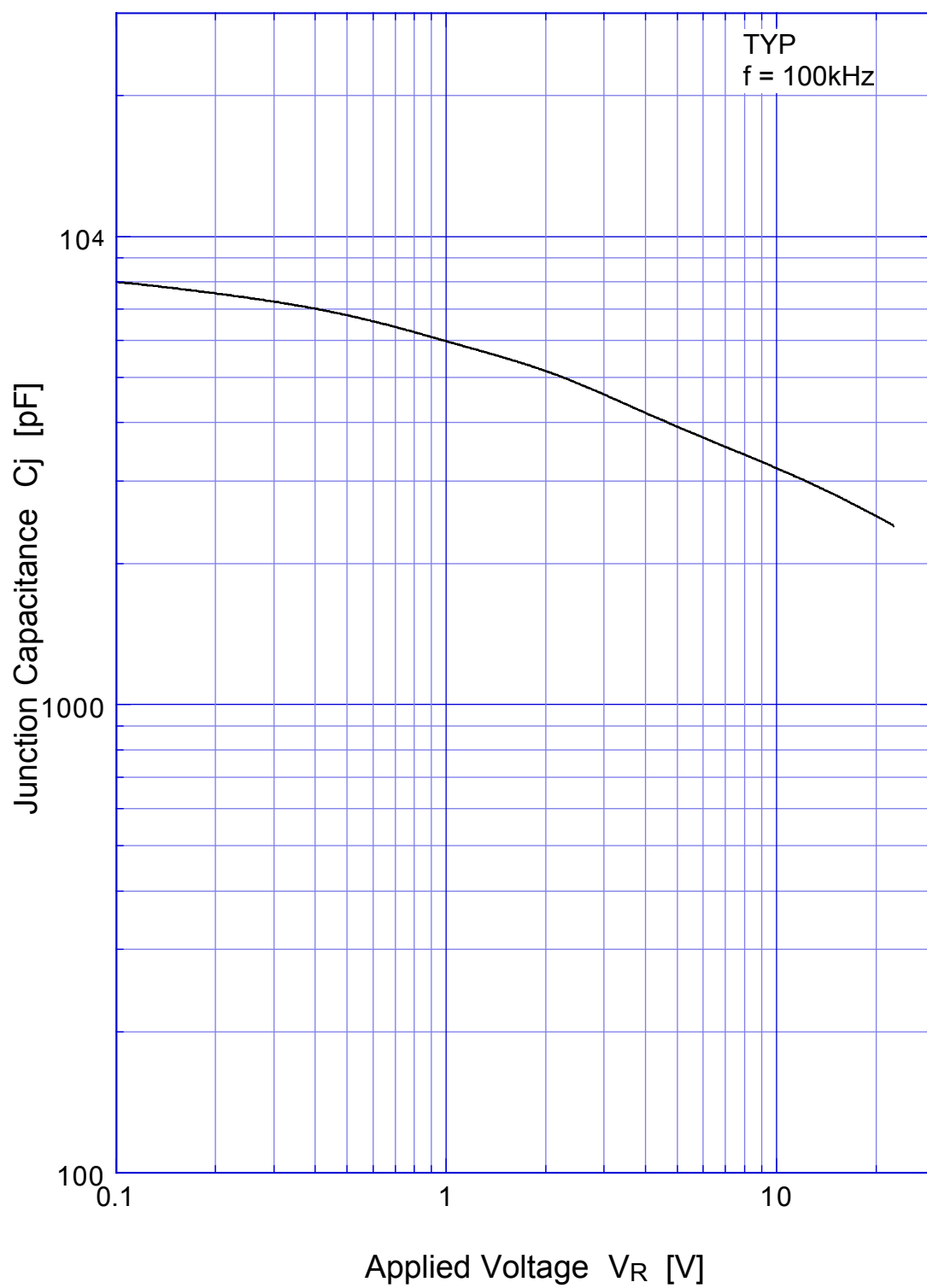
ST70-27F

Junction Capacitance



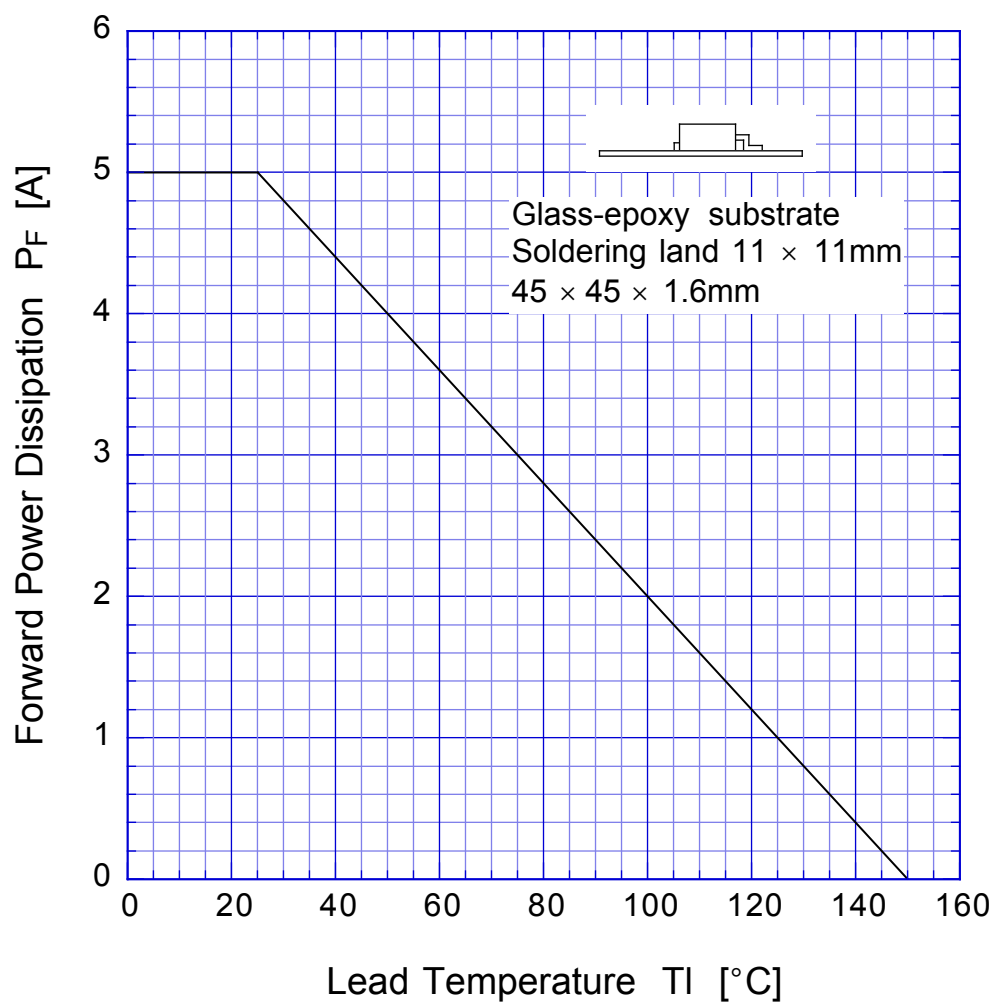
ST70-27F

Junction Capacitance



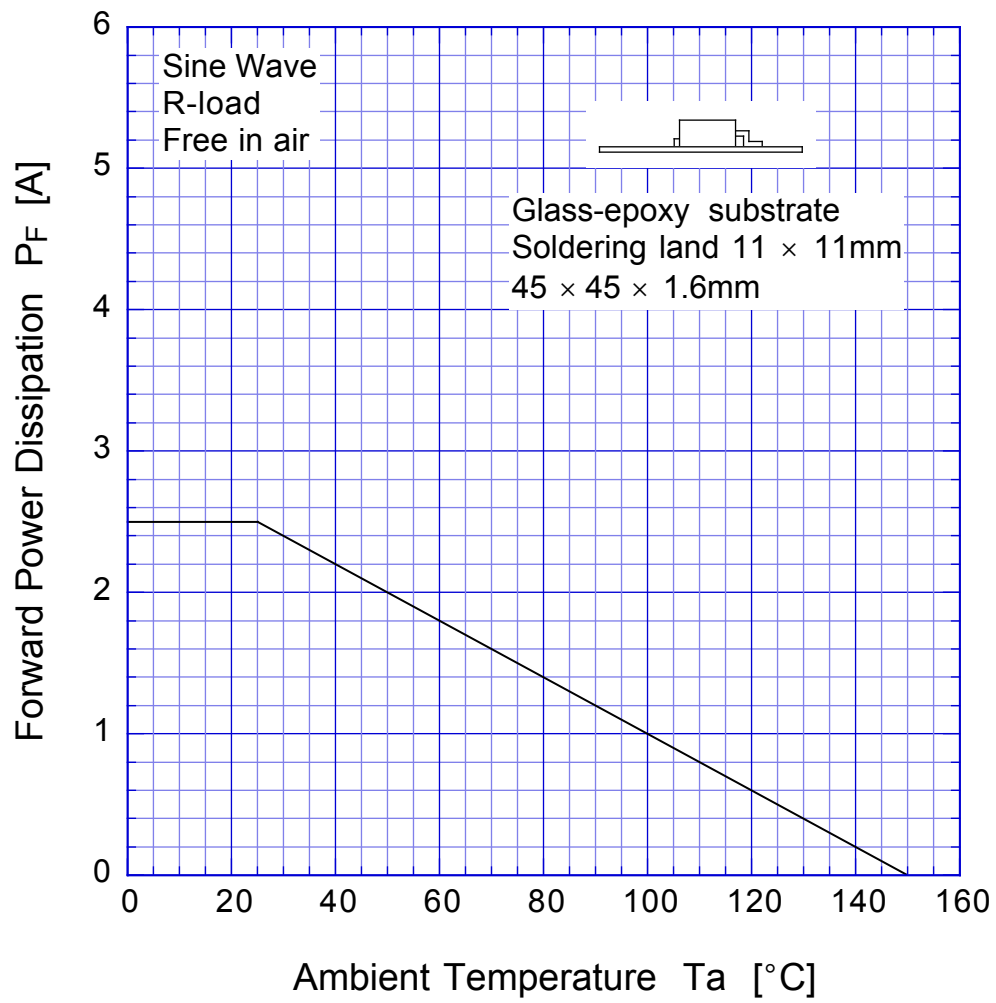
ST70-27F

Derating Curve

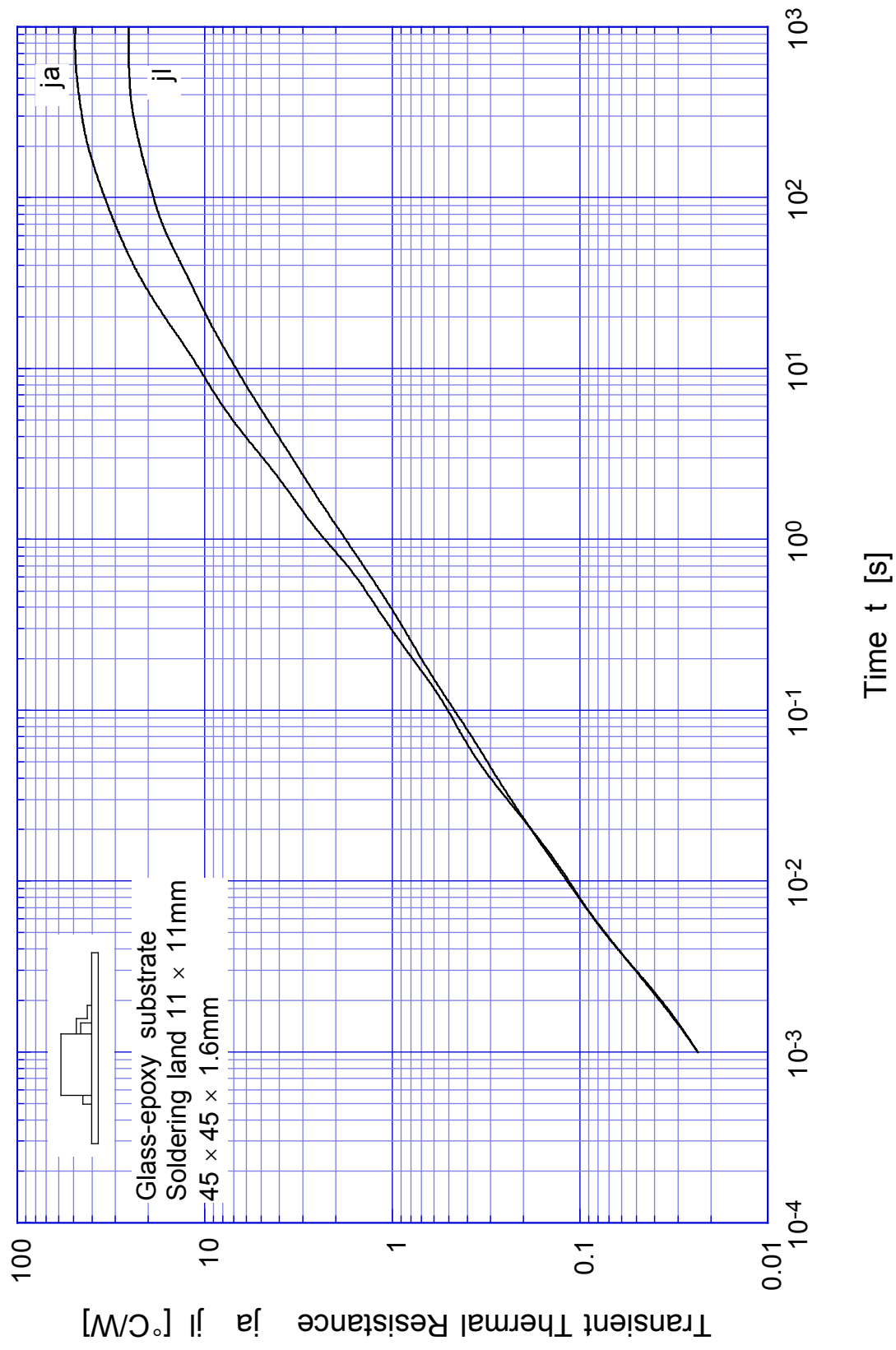


# ST70-27F

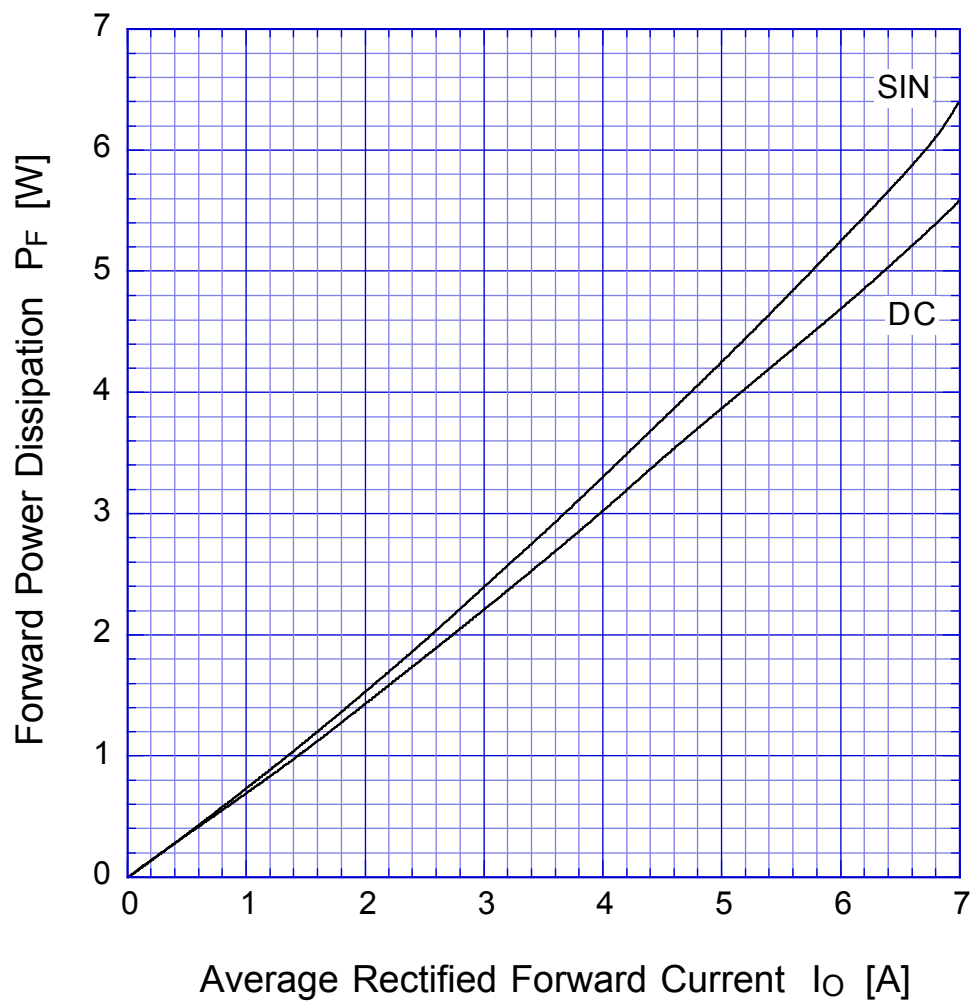
## Derating Curve



# ST70-27F      Transient Thermal Impedance



## ST70-27F Forward Power Dissipation



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