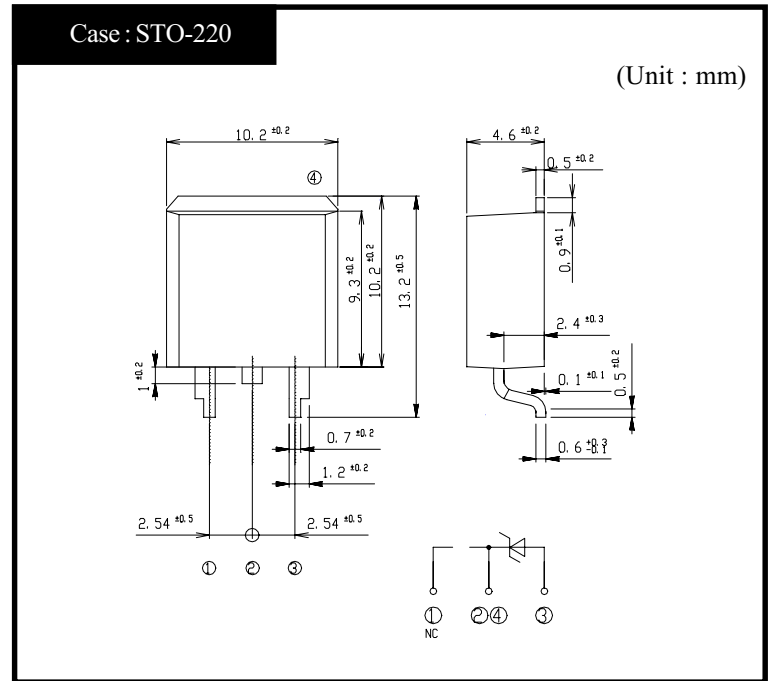


ST70-27F

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

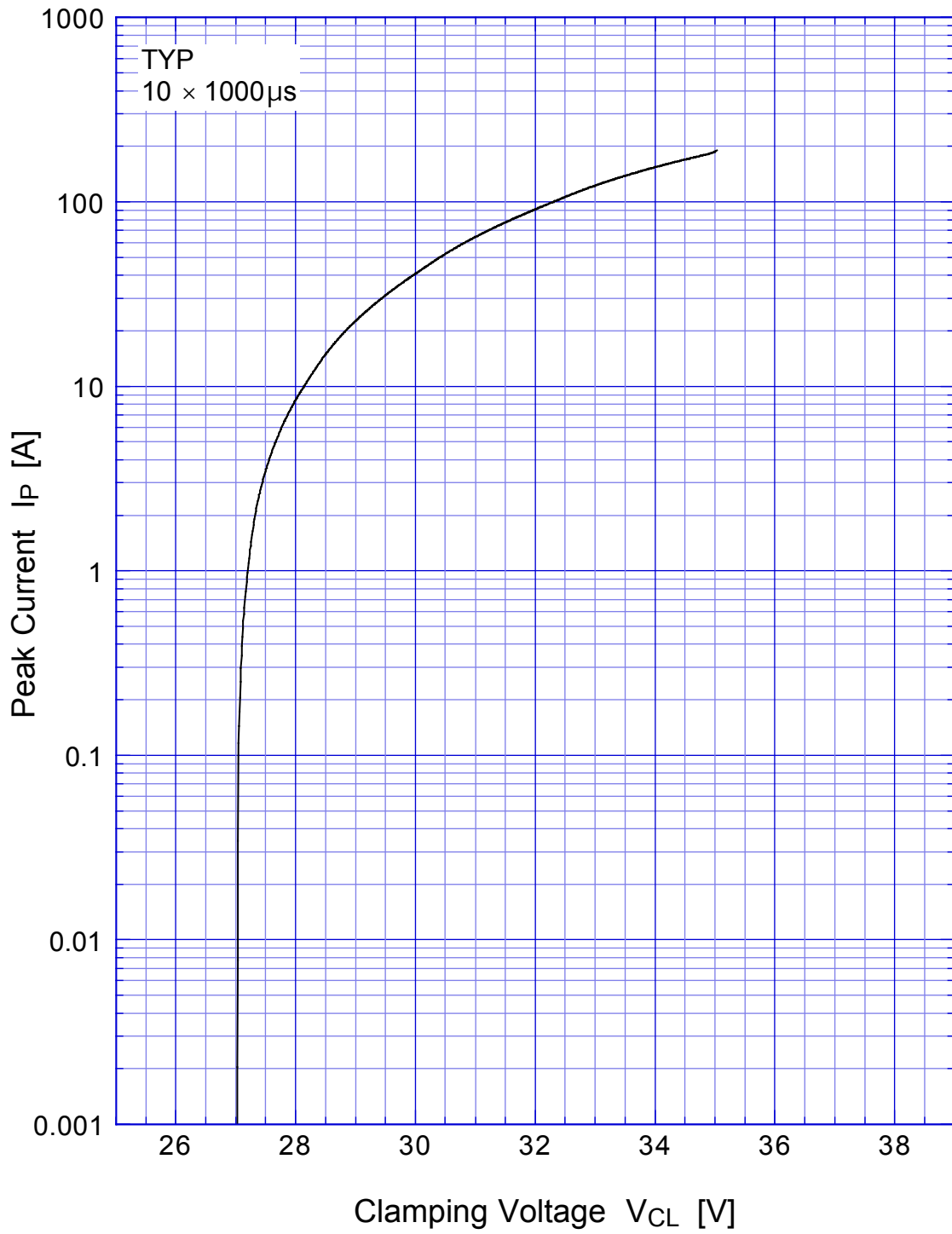
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-40~150	°C
Junction Temperature	T_j		150	°C
Peak Surge Reverse Power	P_{RSM}	10/1000 μ s, Non-repetitive	7000	W
Peak Surge Reverse Current	I_{RSM}	10/1000 μ s, Non-repetitive	180	A
Maximum Reverse Voltage	V_{RM}		23	V

● Electrical Characteristics (Tl=25°C)

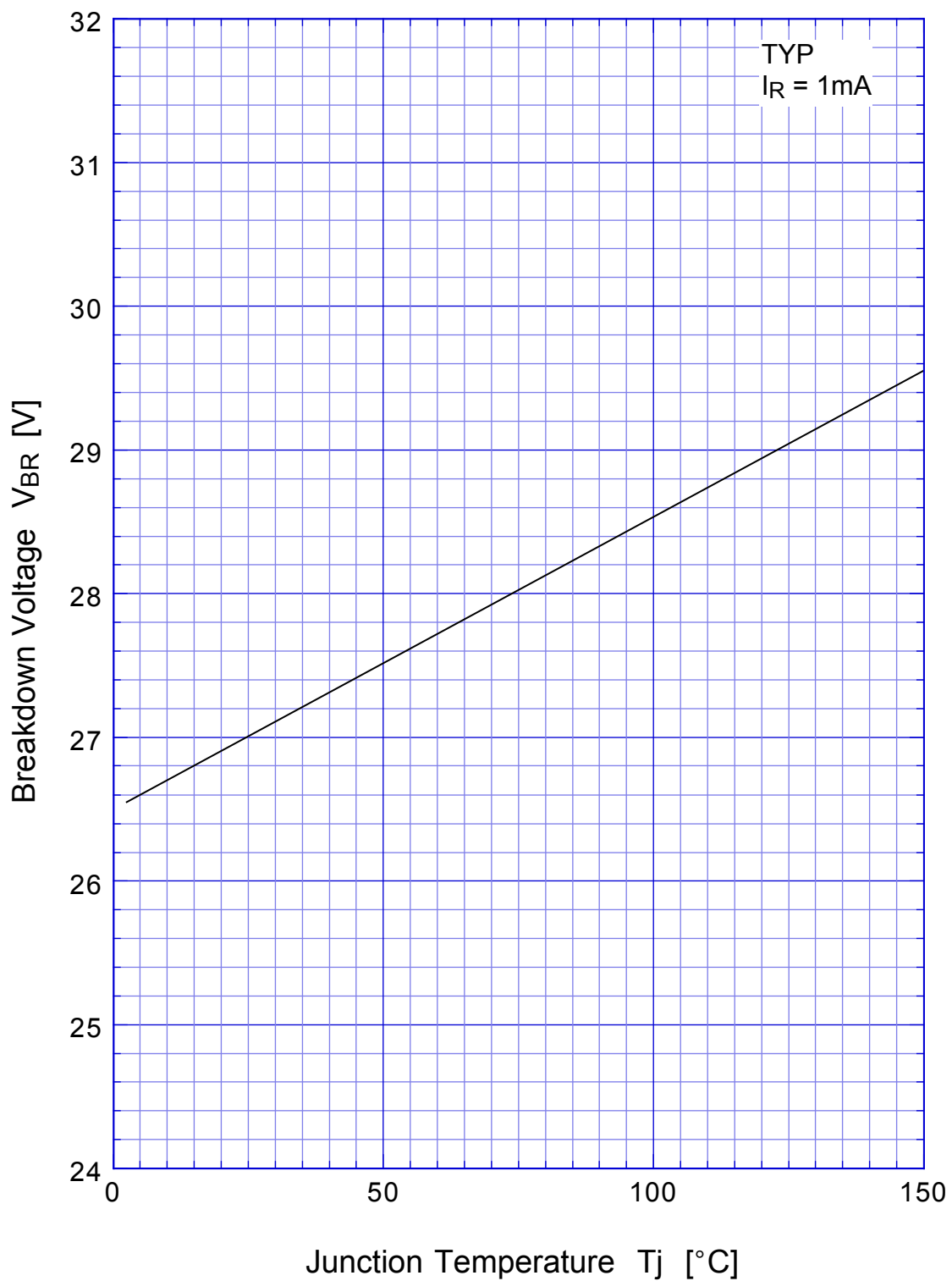
Item	Symbol	Conditions	Ratings	Unit
Breakdown Voltage	V_{BR}	$I_R = 1mA$	24.3~29.7	V
Clamping Voltage	V_{CL}	$I_{PP} = 180A$	MAX 40	V
Off-State Current	I_R	$V_R = V_{RM}$	MAX 5	μ A

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Clamping Voltage

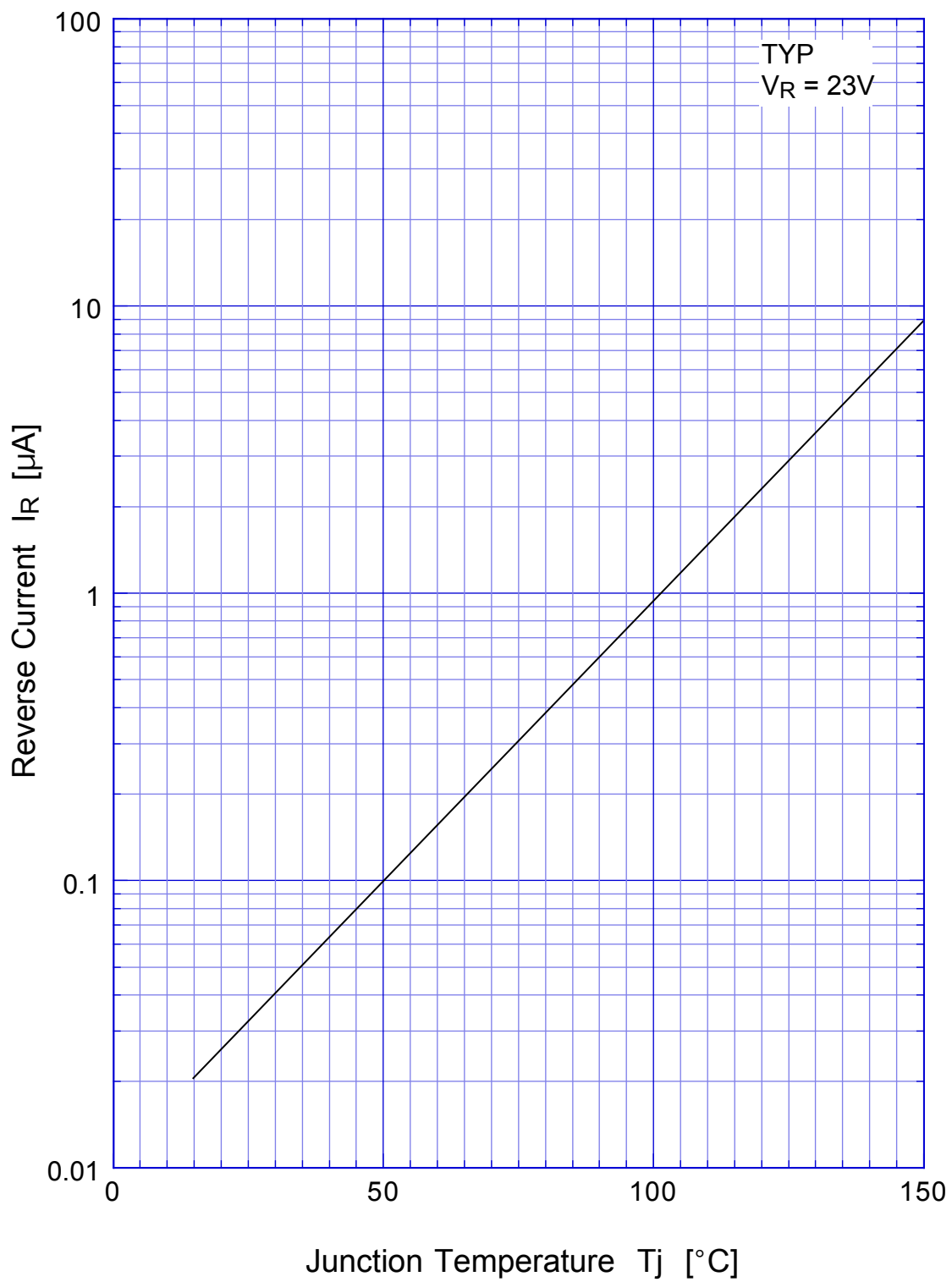


ST70-27F Breakdown Voltage



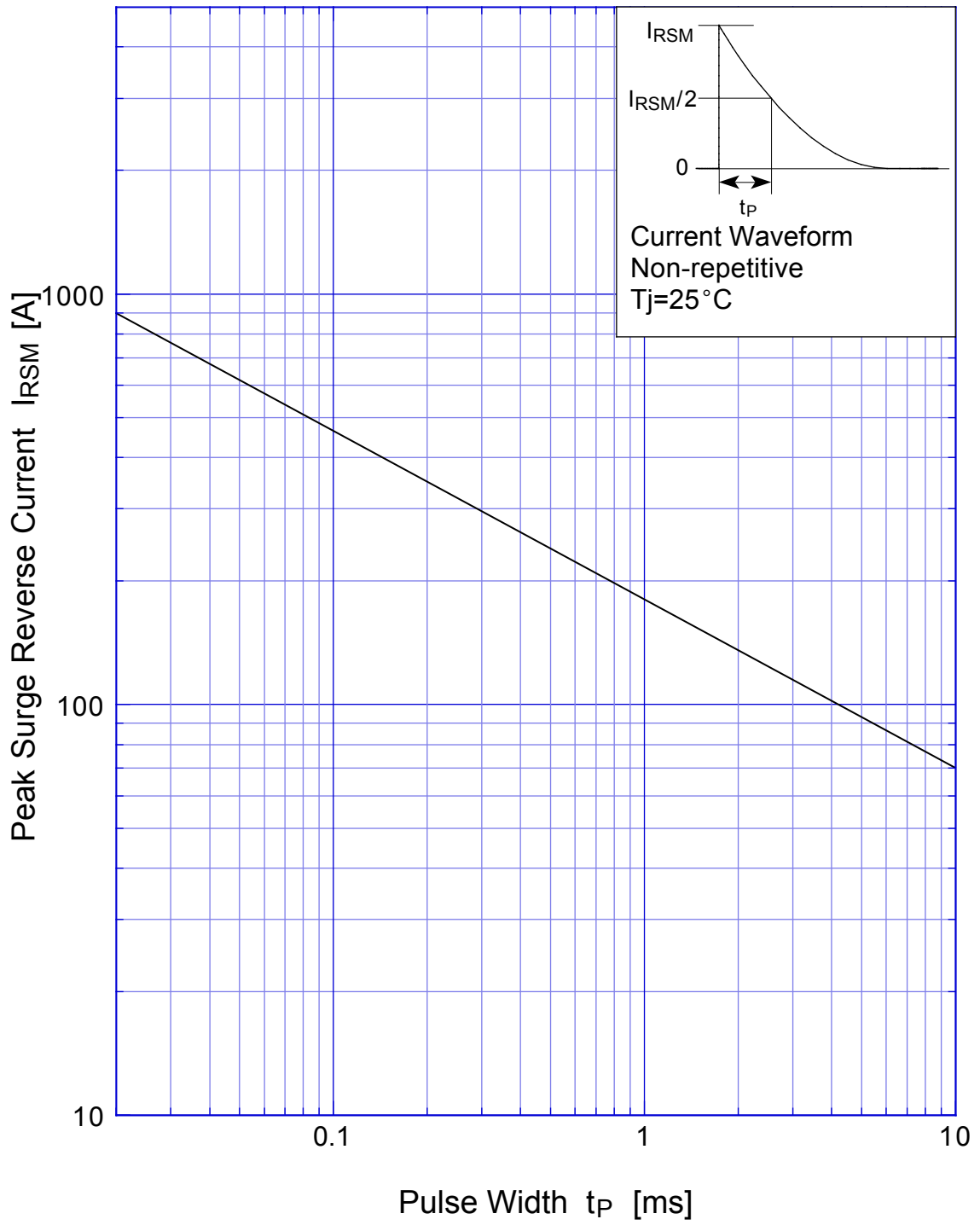
ST70-27F

Reverse Current



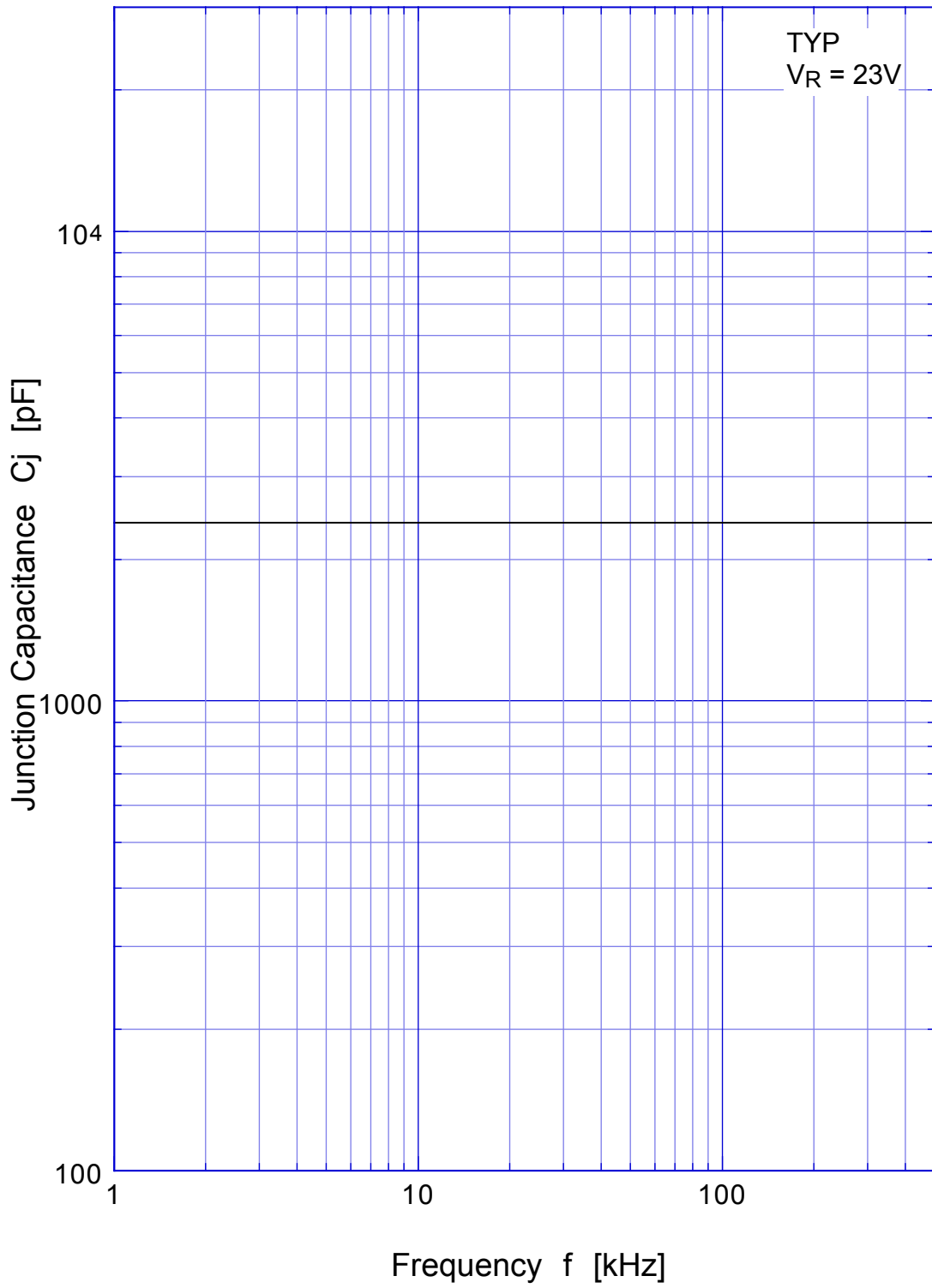
ST70-27F

Peak Surge Reverse Current



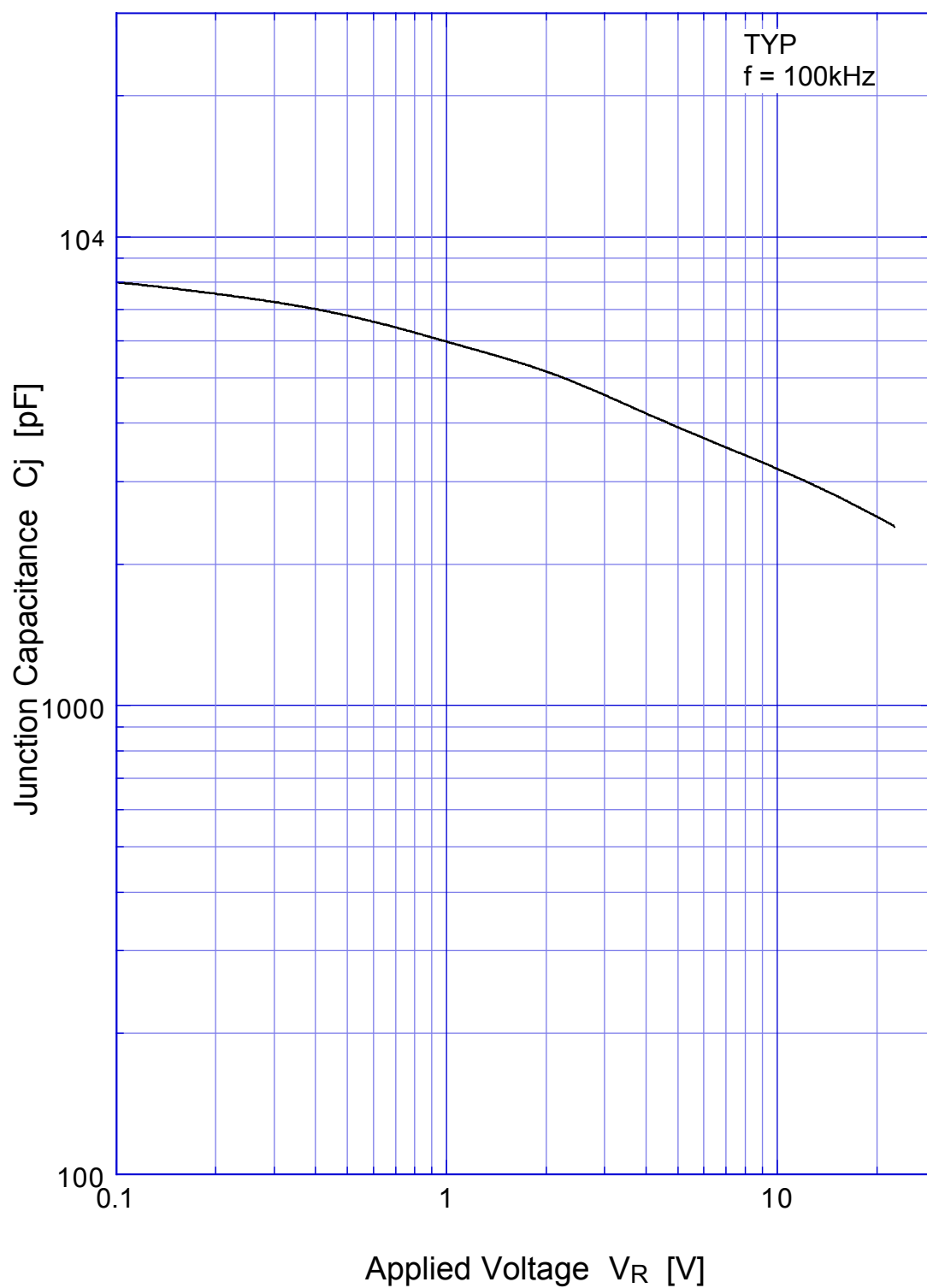
ST70-27F

Junction Capacitance



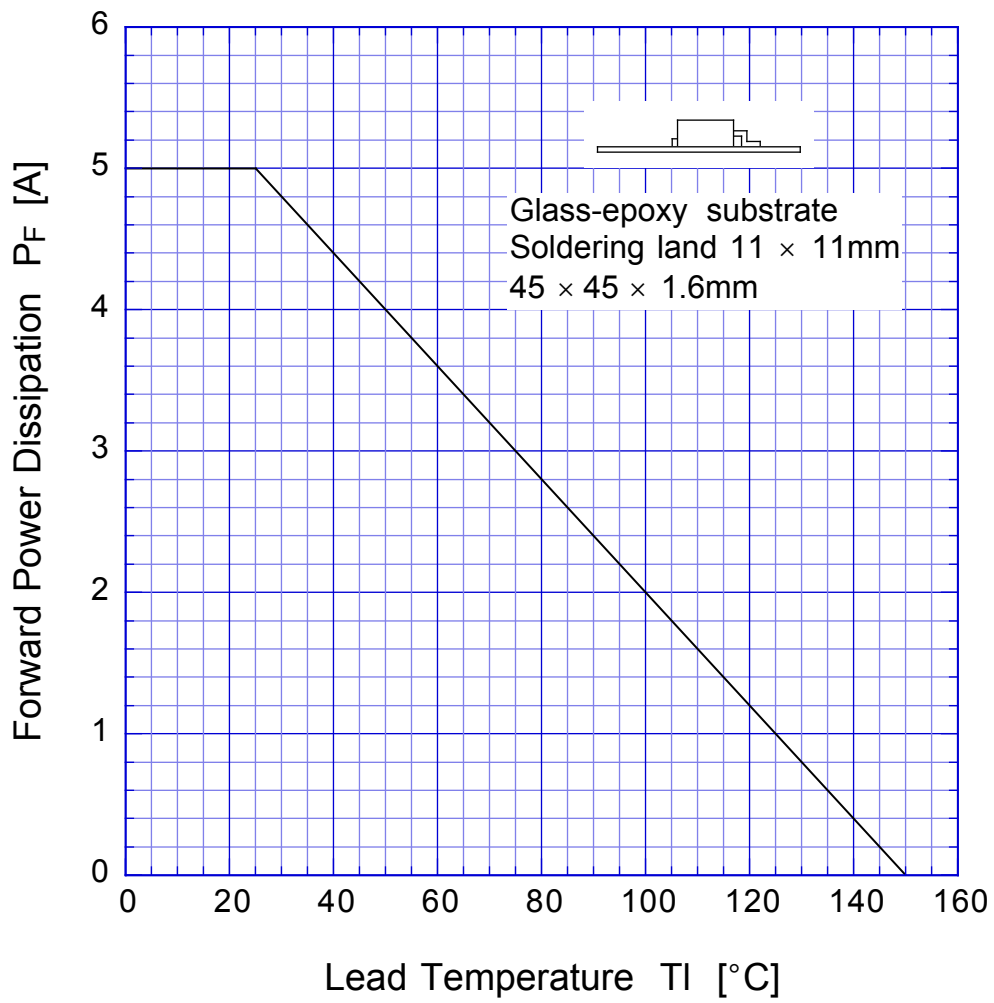
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Junction Capacitance



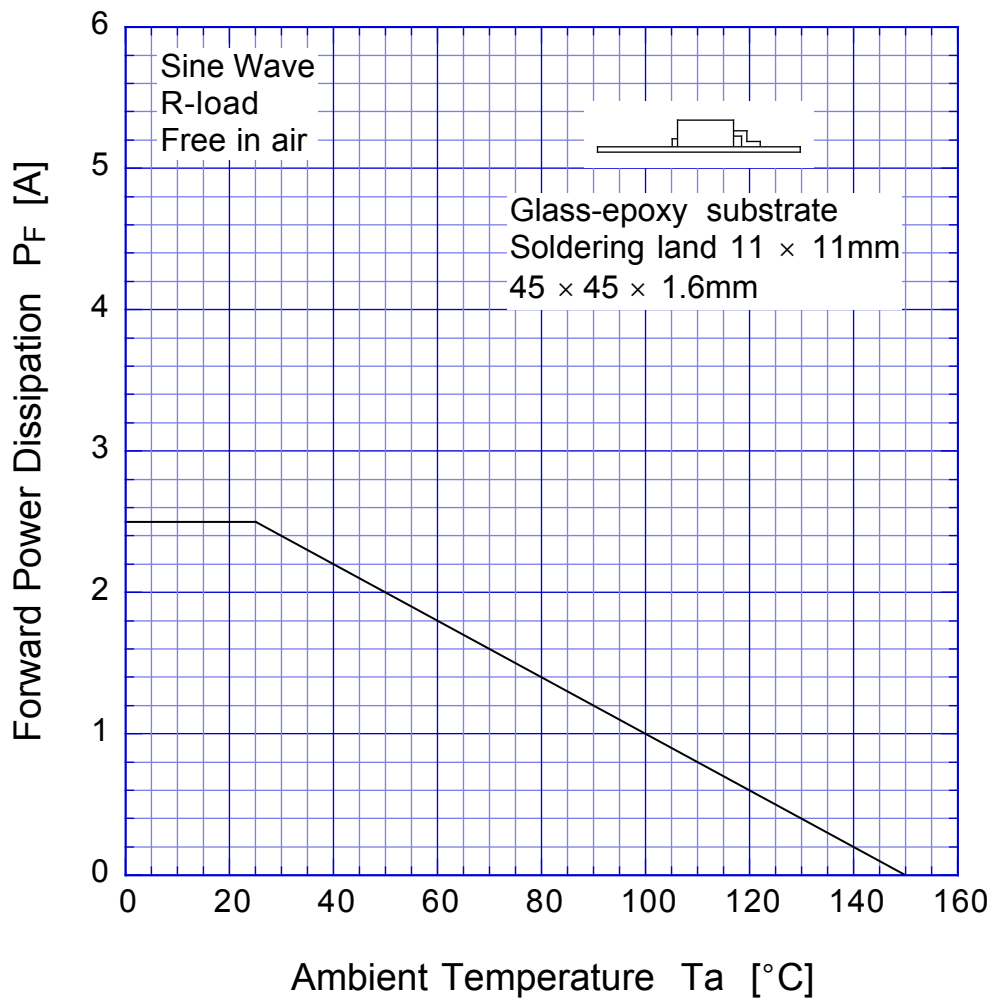
ST70-27F

Derating Curve

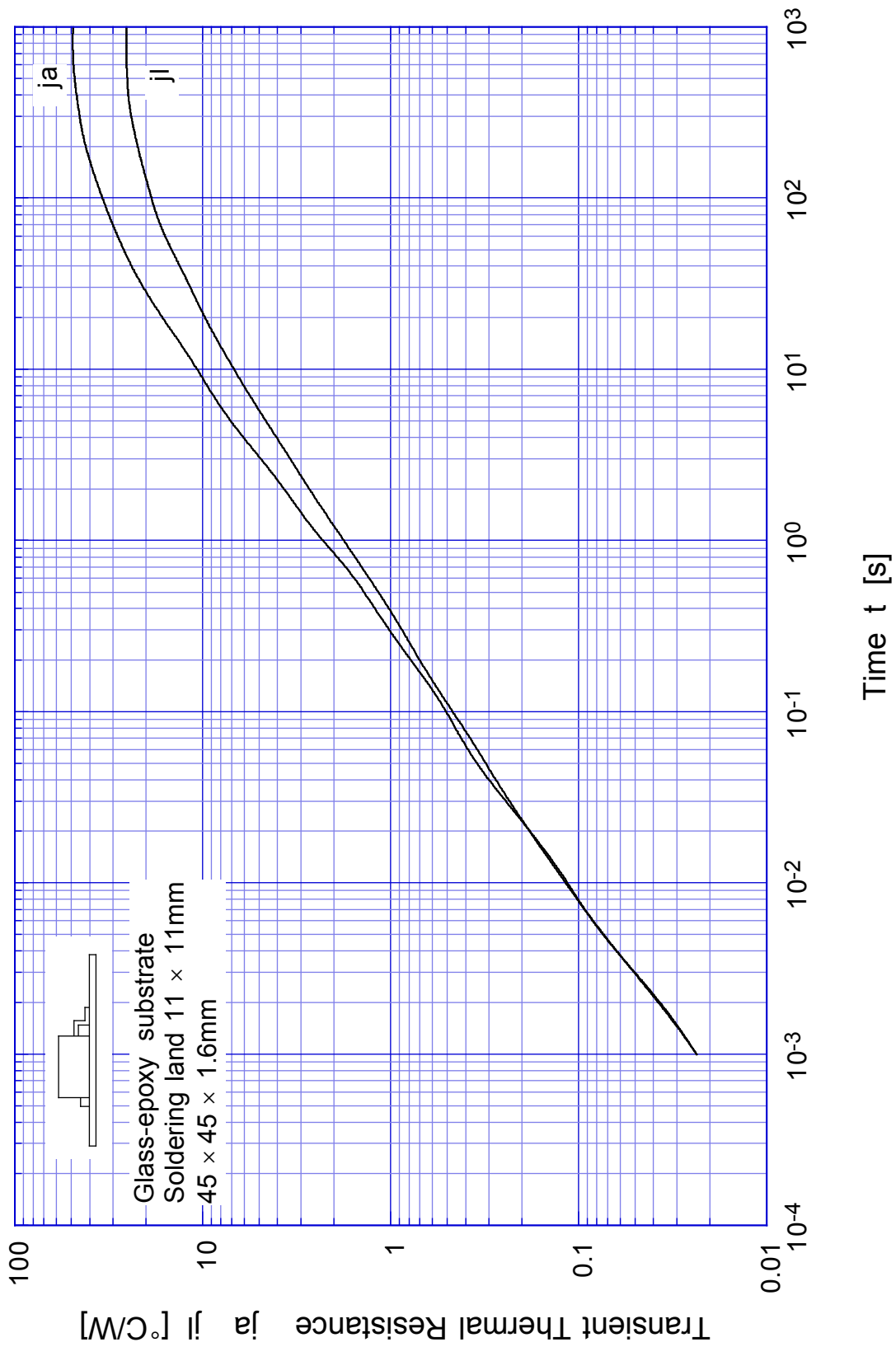


ST70-27F

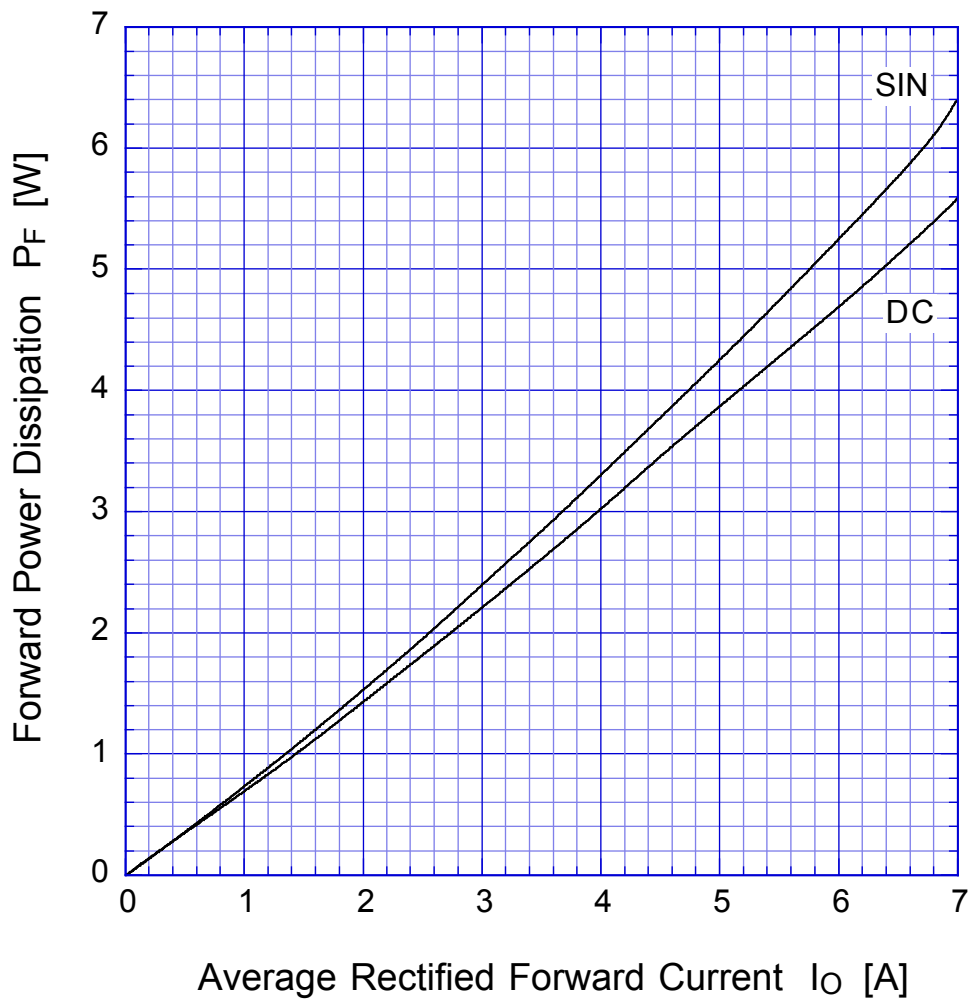
Derating Curve



ST70-27F Transient Thermal Impedance



ST70-27F Forward Power Dissipation



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