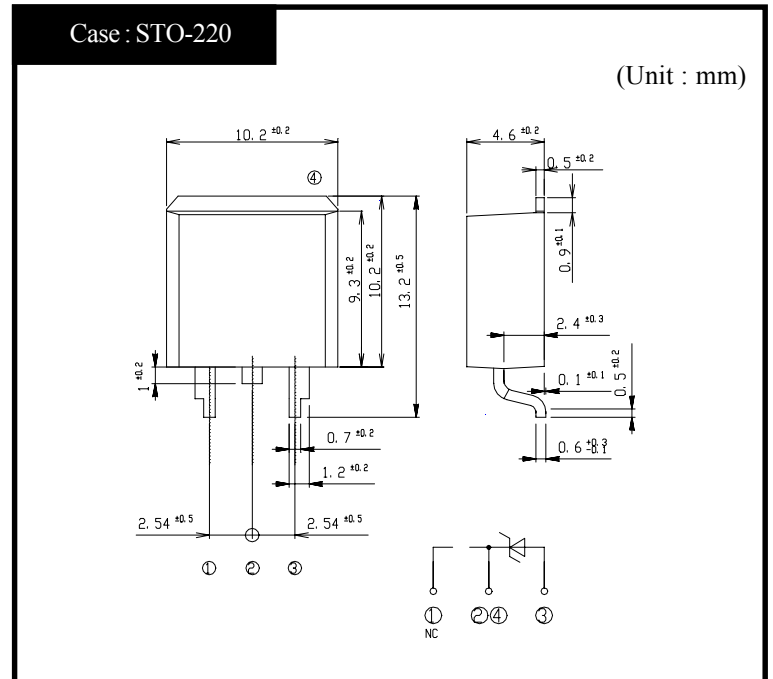


# ST70-27F

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings

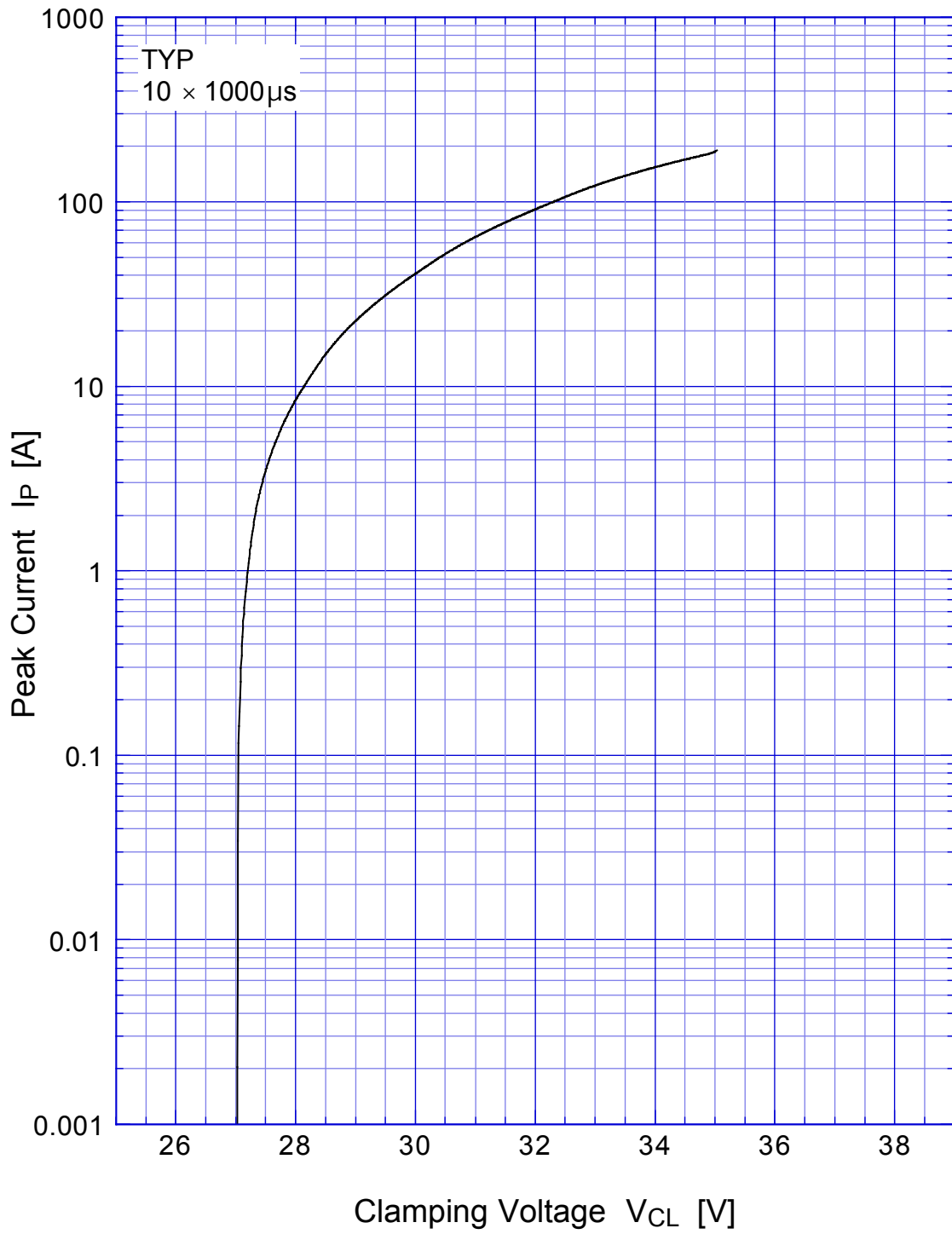
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-40~150	°C
Junction Temperature	T <sub>j</sub>		150	°C
Peak Surge Reverse Power	P <sub>RSM</sub>	10/1000 μ s, Non-repetitive	7000	W
Peak Surge Reverse Current	I <sub>RSM</sub>	10/1000 μ s, Non-repetitive	180	A
Maximum Reverse Voltage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

#### ● Electrical Characteristics (T<sub>I</sub>=25°C)

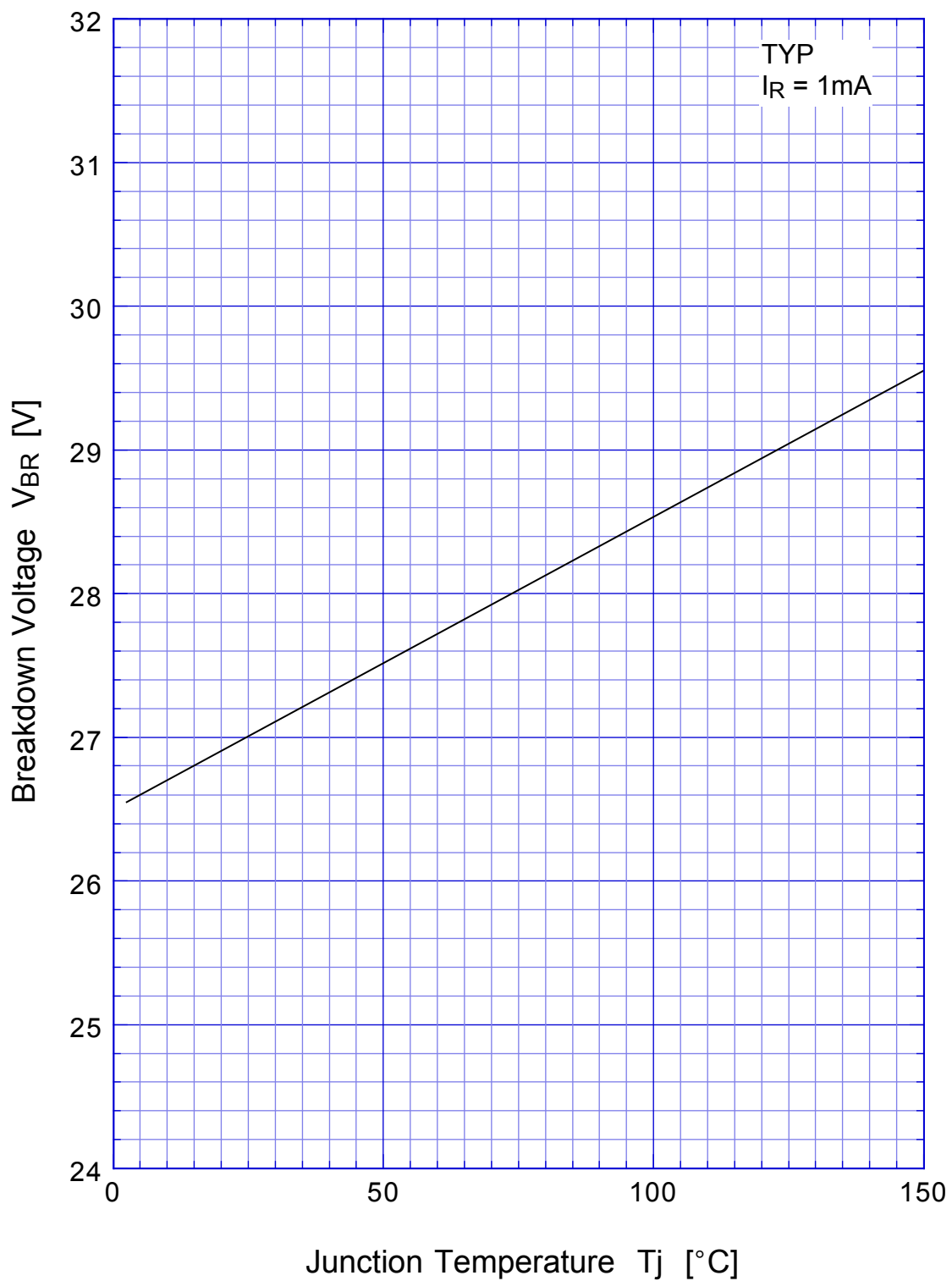
Item	Symbol	Conditions	Ratings	Unit
Breakdown Voltage	V <sub>BR</sub>	I <sub>R</sub> = 1mA	24.3~29.7	V
Clamping Voltage	V <sub>CL</sub>	I <sub>PP</sub> = 180A	MAX 40	V
Off-State Current	I <sub>R</sub>	V <sub>R</sub> = V <sub>RM</sub>	MAX 5	μ A

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Clamping Voltage

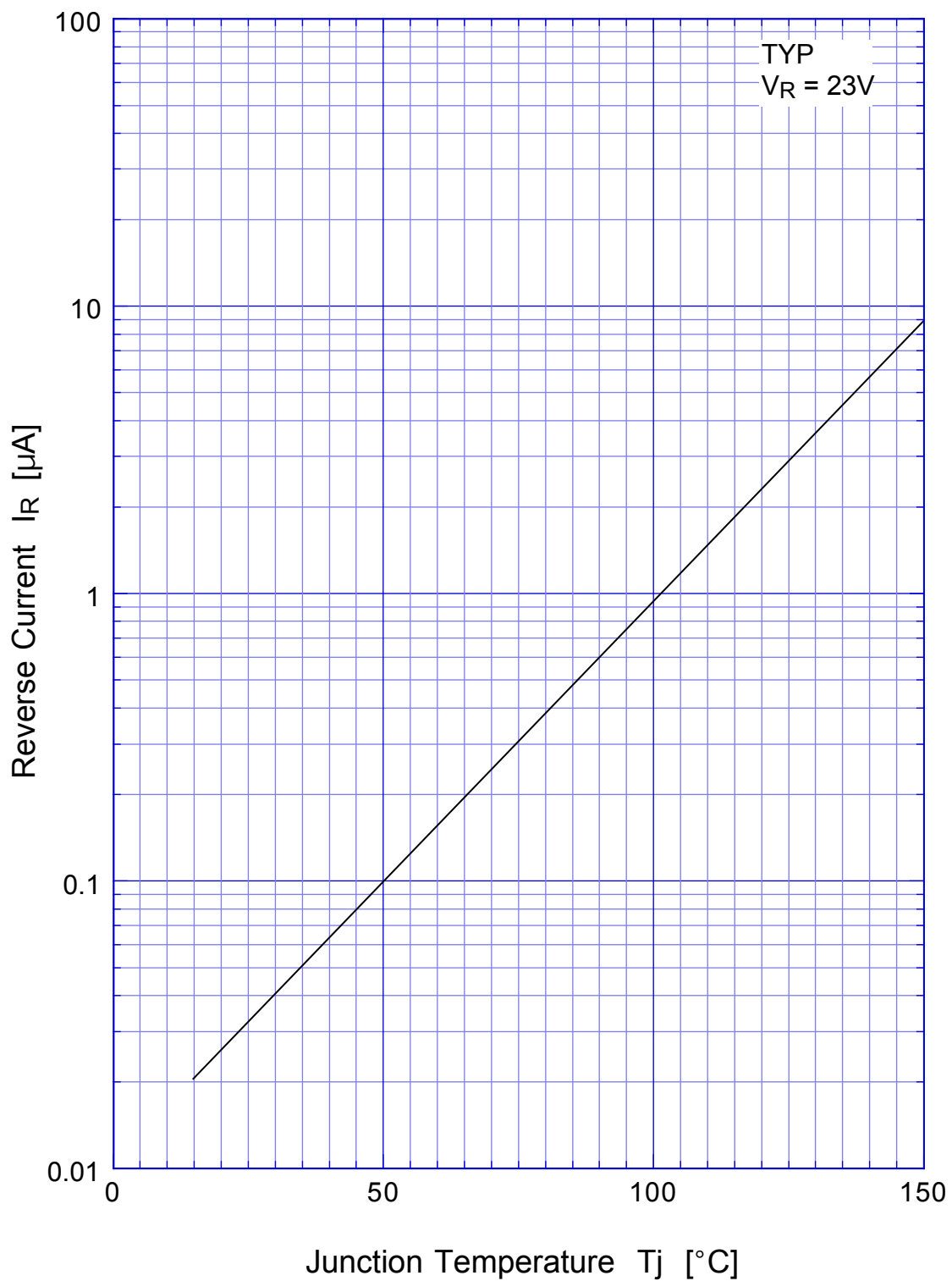


# ST70-27F Breakdown Voltage



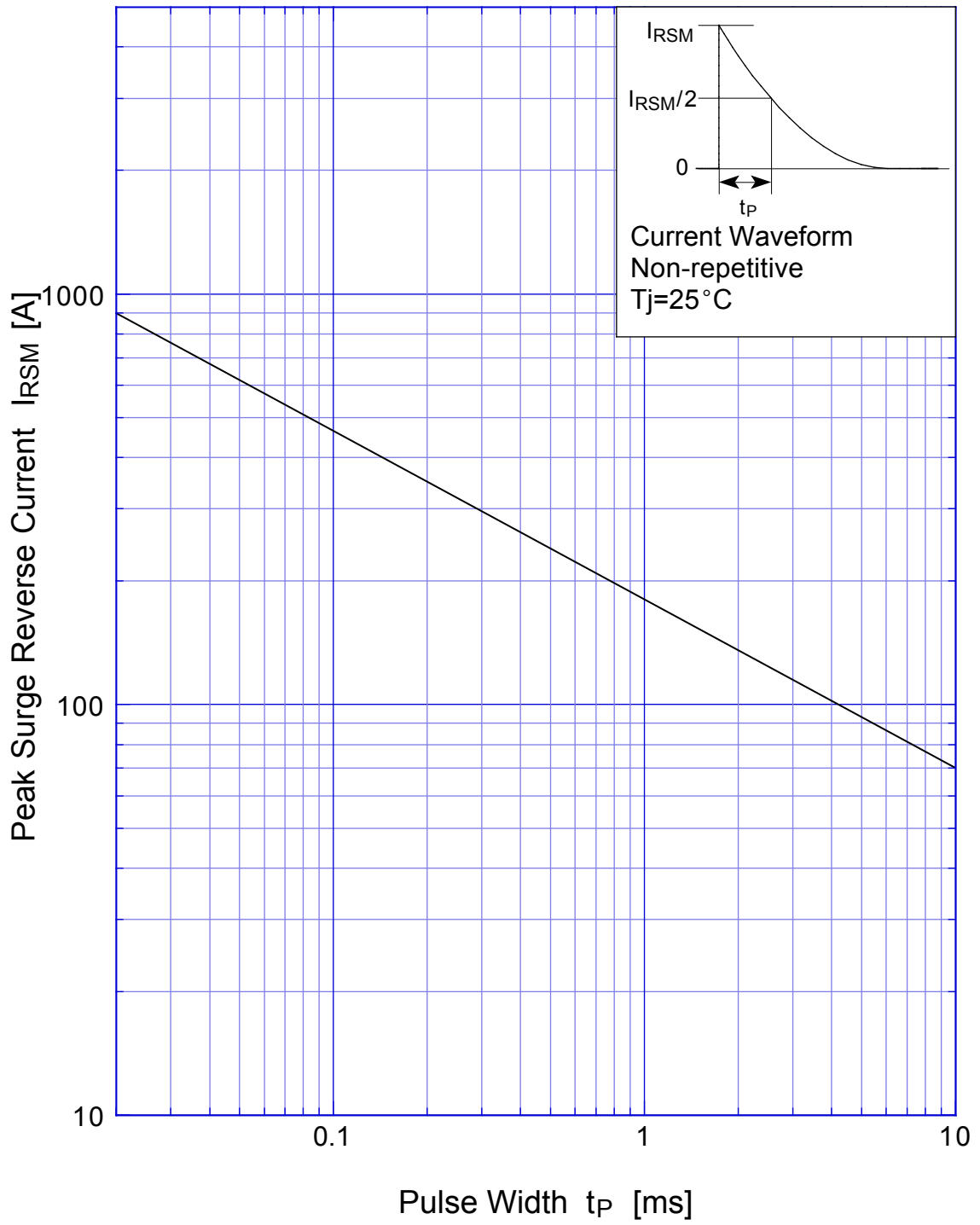
# ST70-27F

## Reverse Current



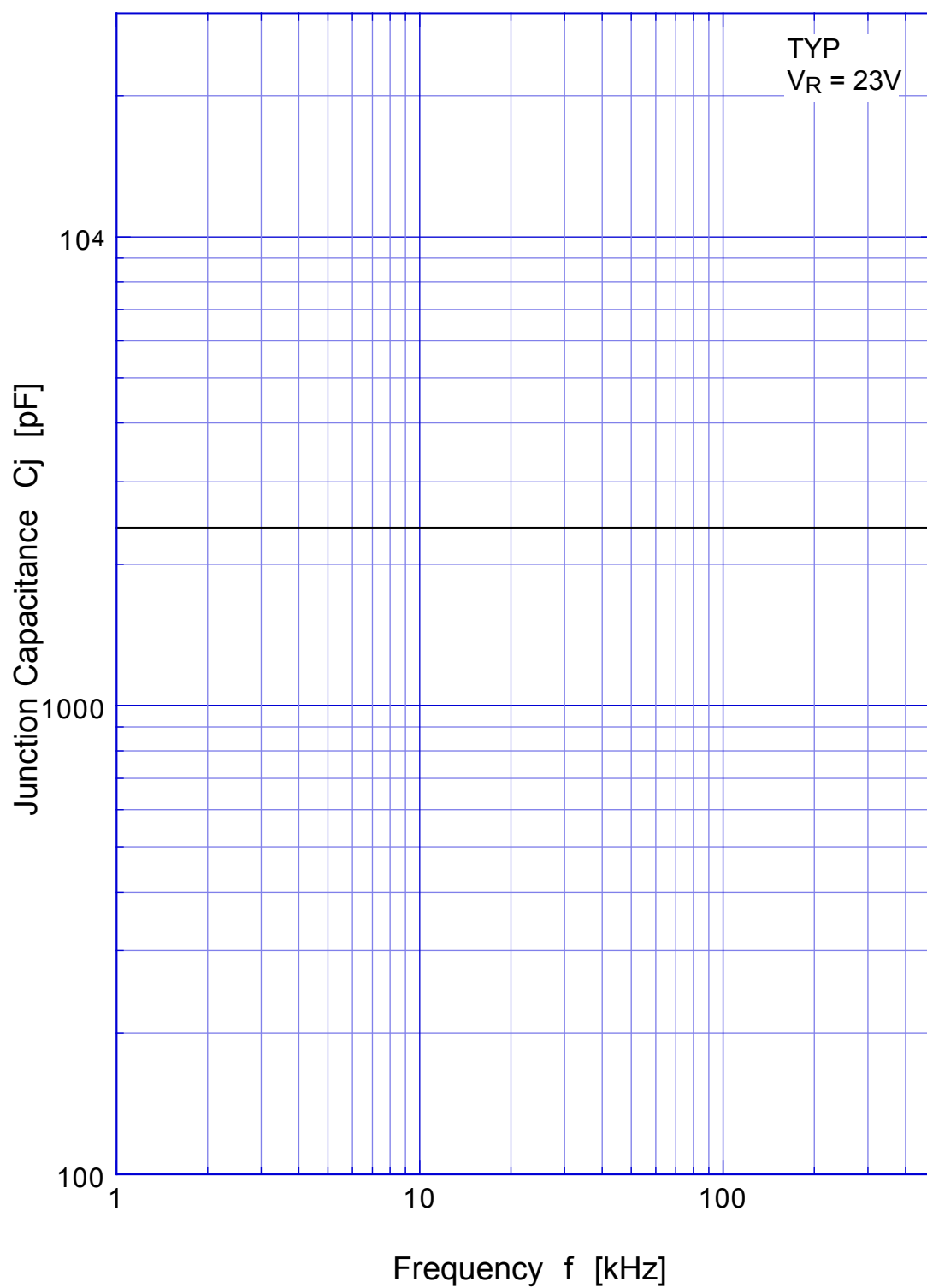
# ST70-27F

## Peak Surge Reverse Current



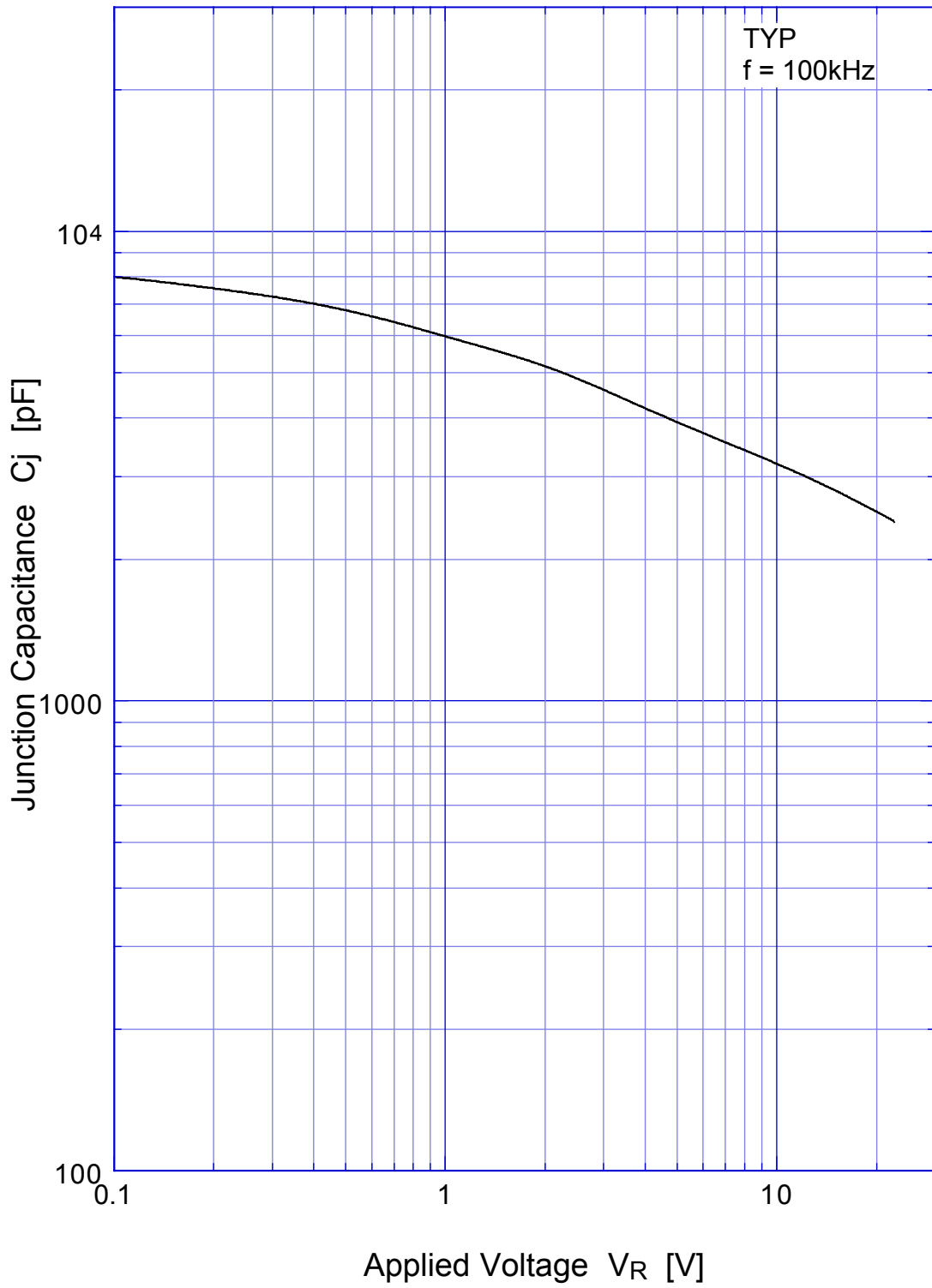
# ST70-27F

# Junction Capacitance



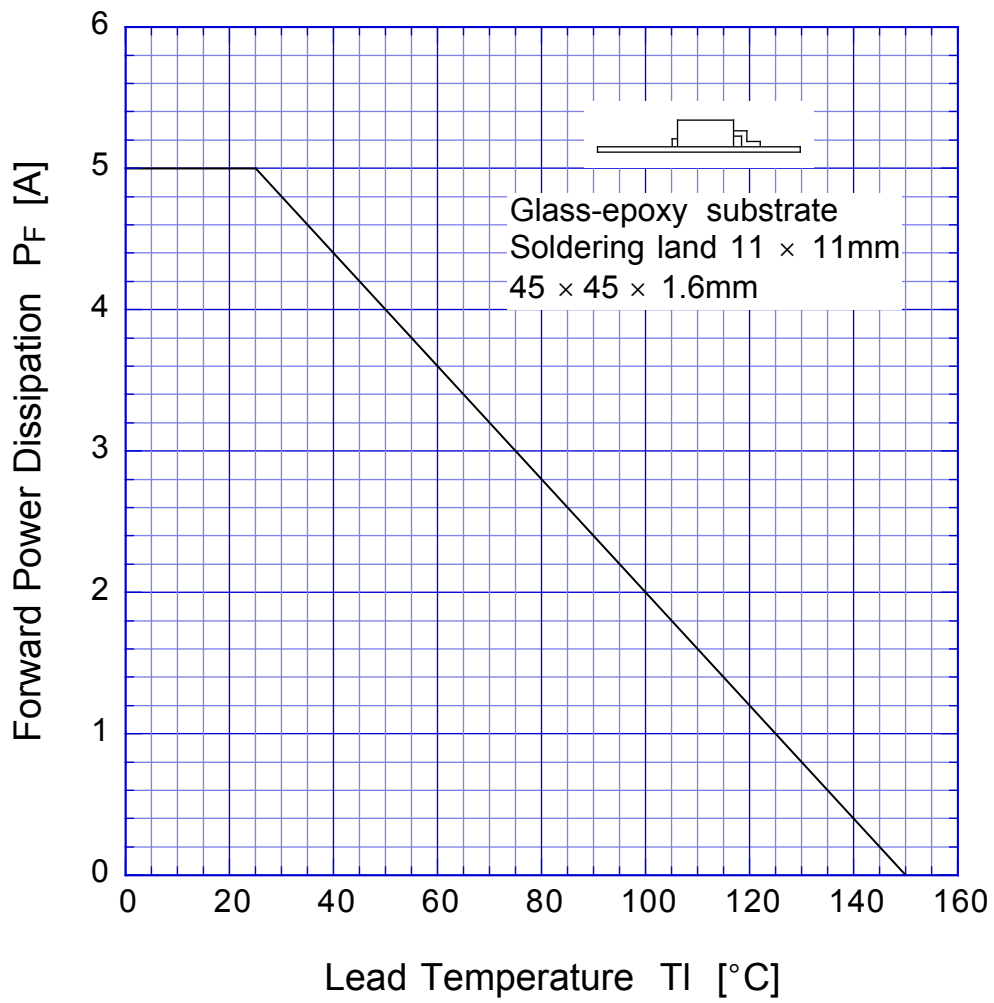
# ST70-27F

# Junction Capacitance



# ST70-27F

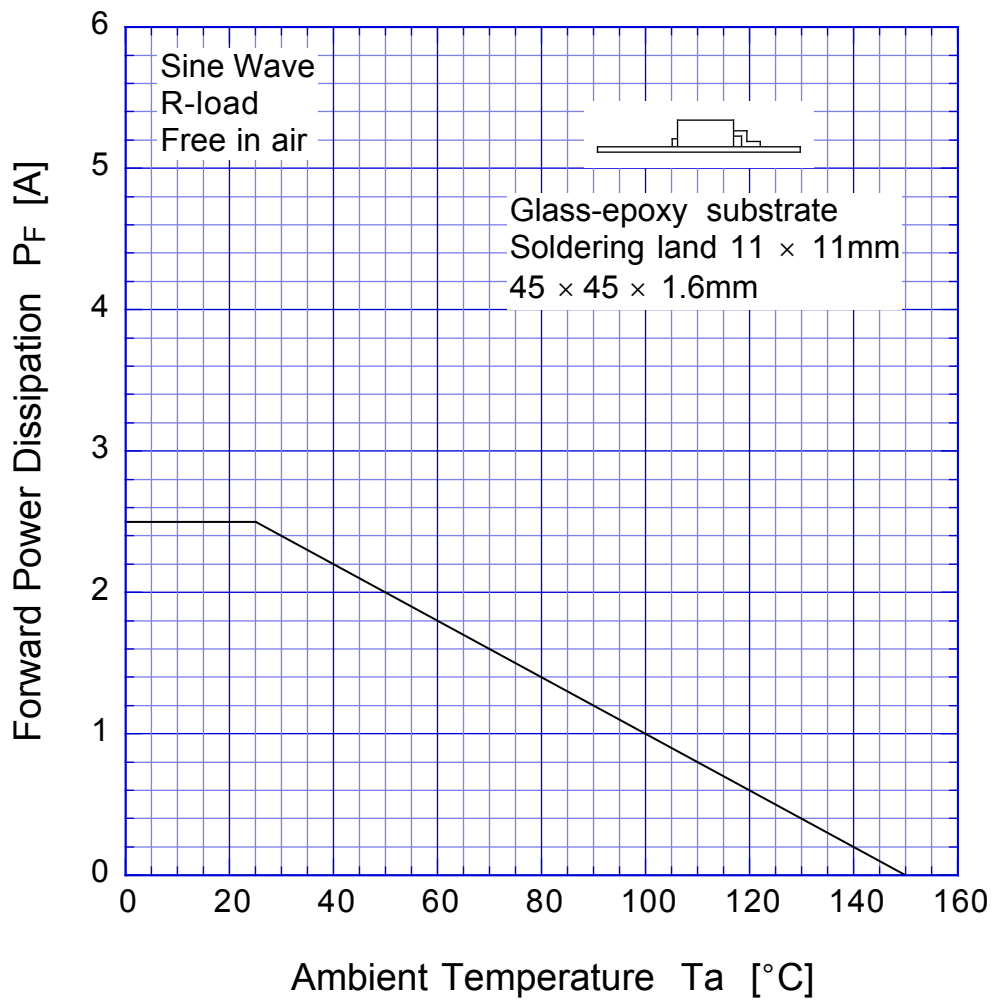
# Derating Curve



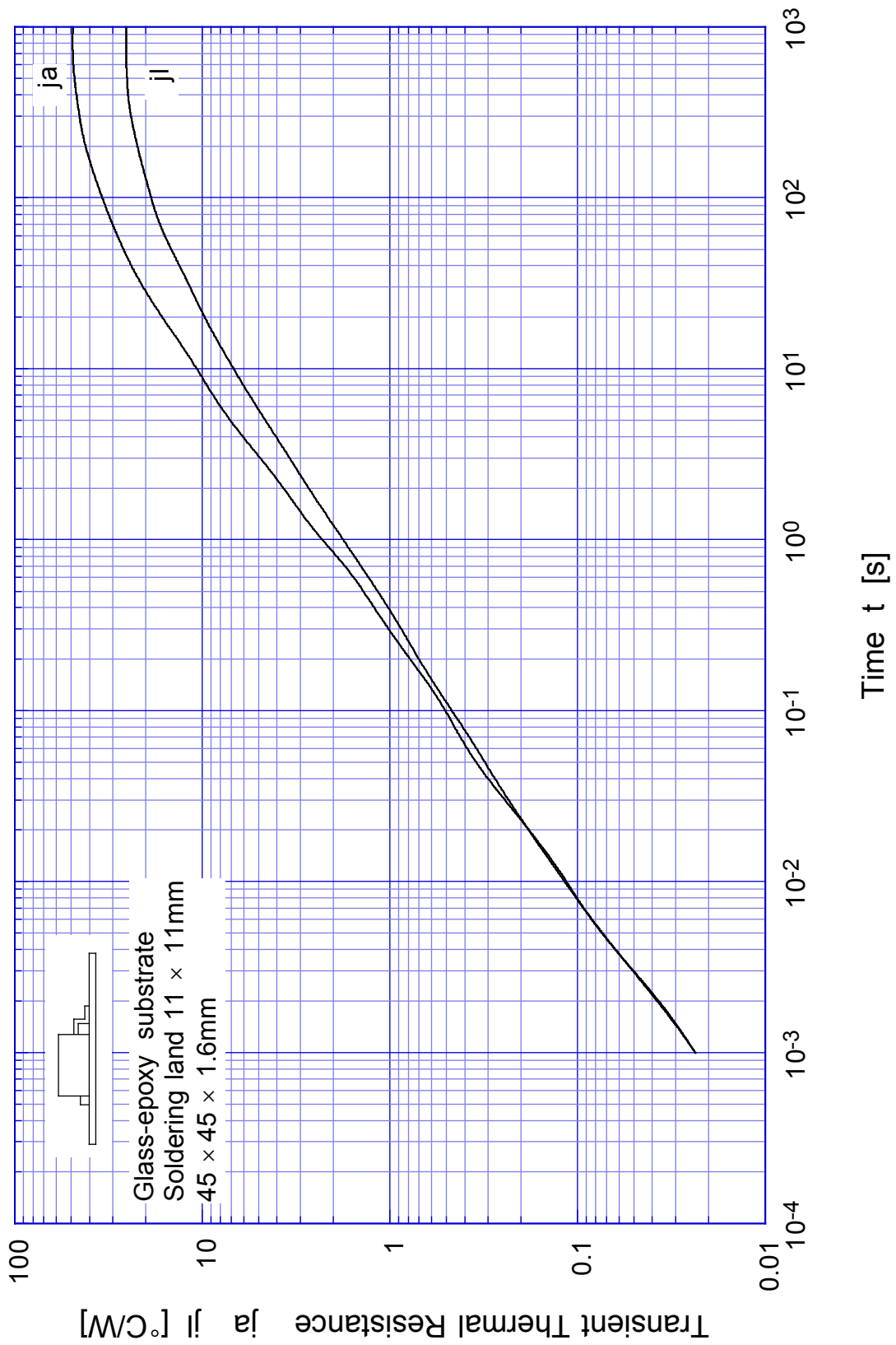


# ST70-27F

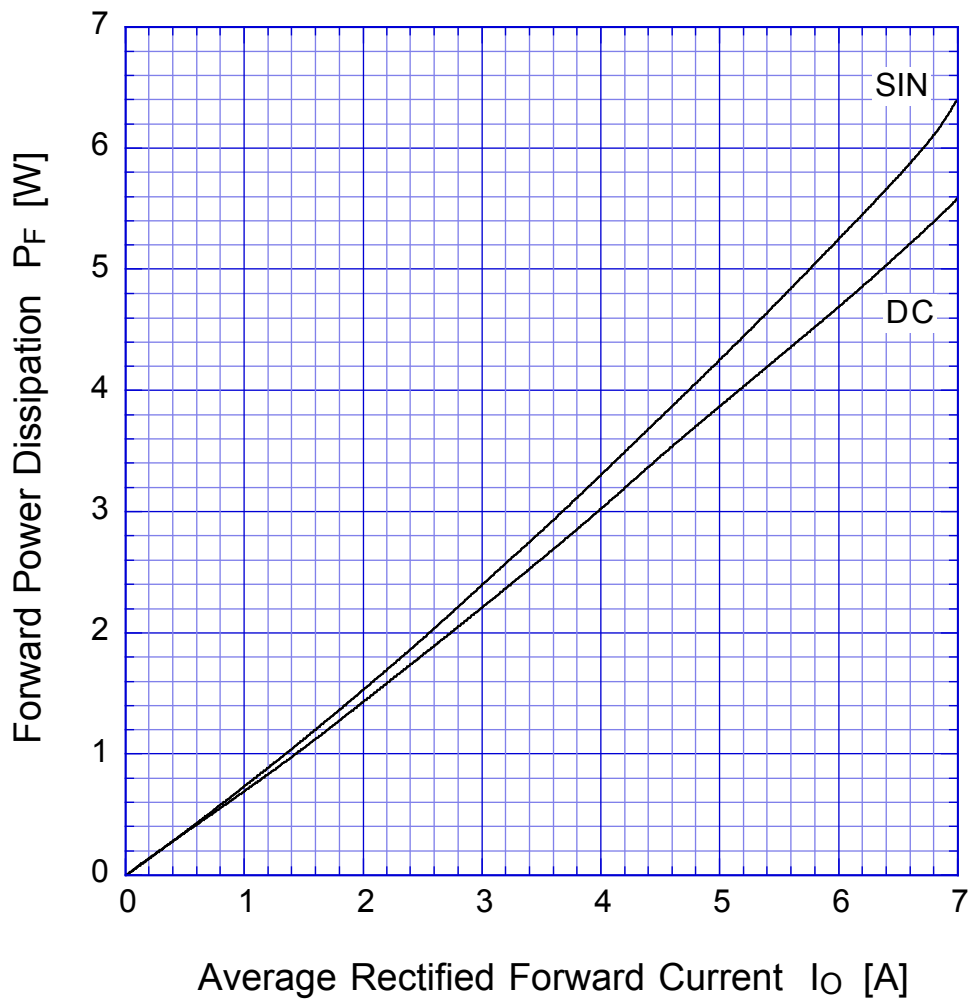
# Derating Curve



# ST70-27F Transient Thermal Impedance



## ST70-27F Forward Power Dissipation



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