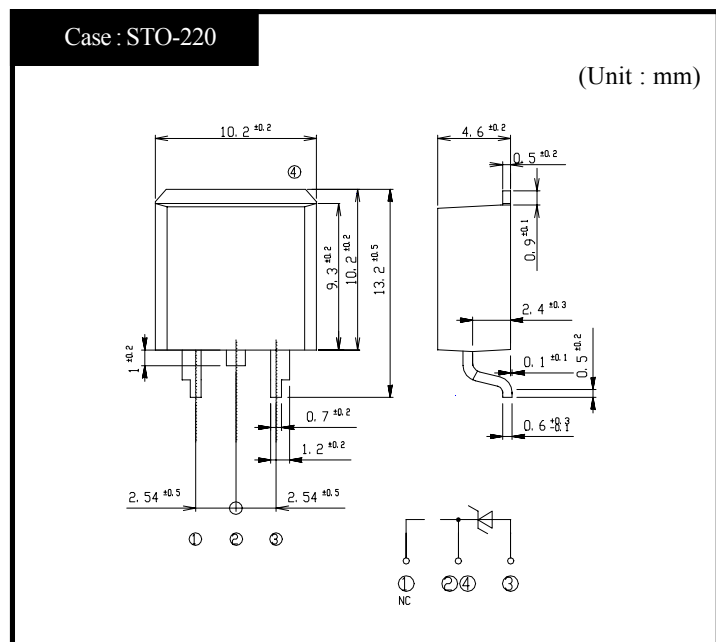


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OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

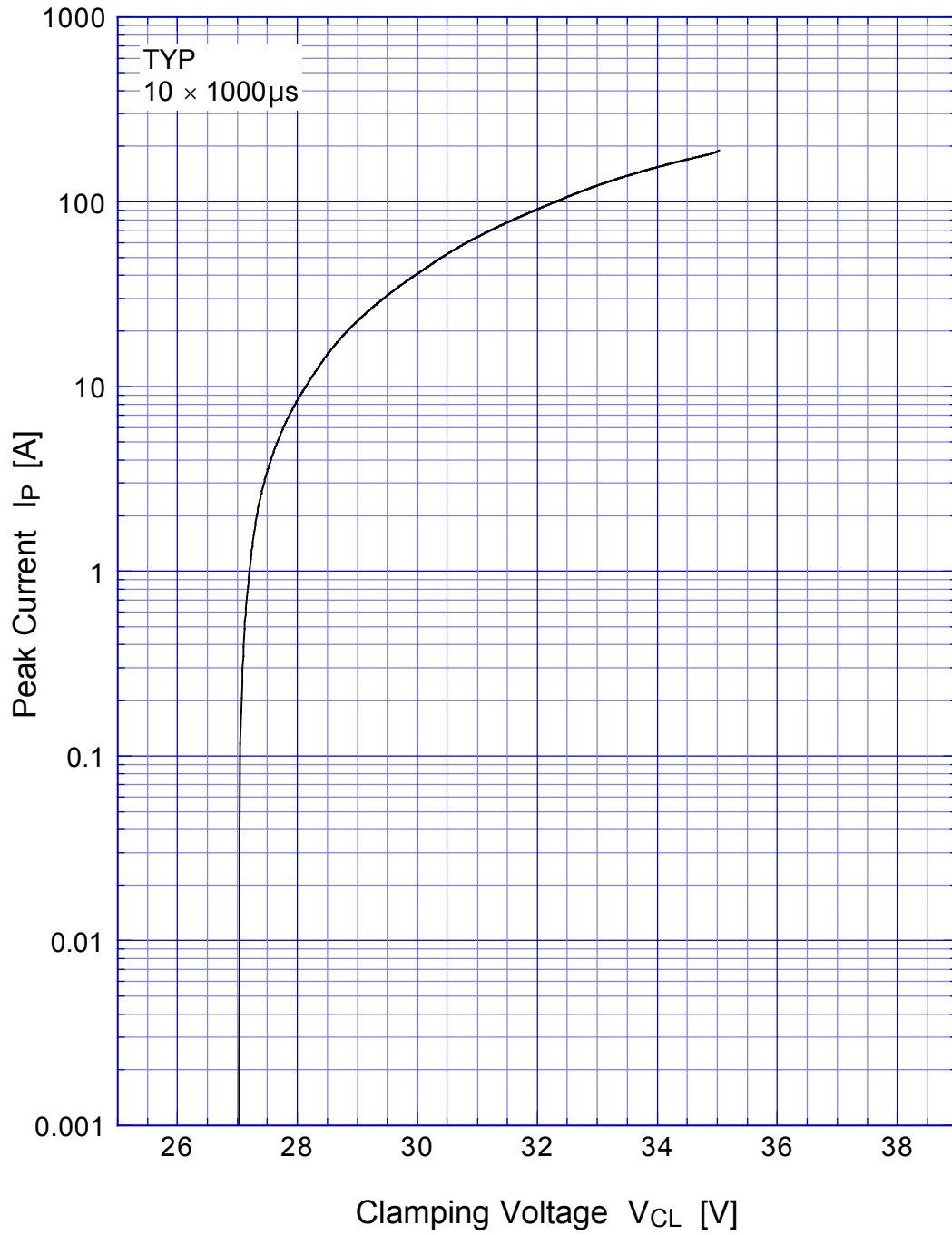
| Item | Symbol | Conditions | Ratings | Unit |
|----------------------------|-----------|---------------------------------|---------|------|
| Storage Temperature | T_{stg} | | -40~150 | °C |
| Junction Temperature | T_j | | 150 | °C |
| Peak Surge Reverse Power | P_{RSM} | 10/1000 μ s, Non-repetitive | 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 (TI=25°C)

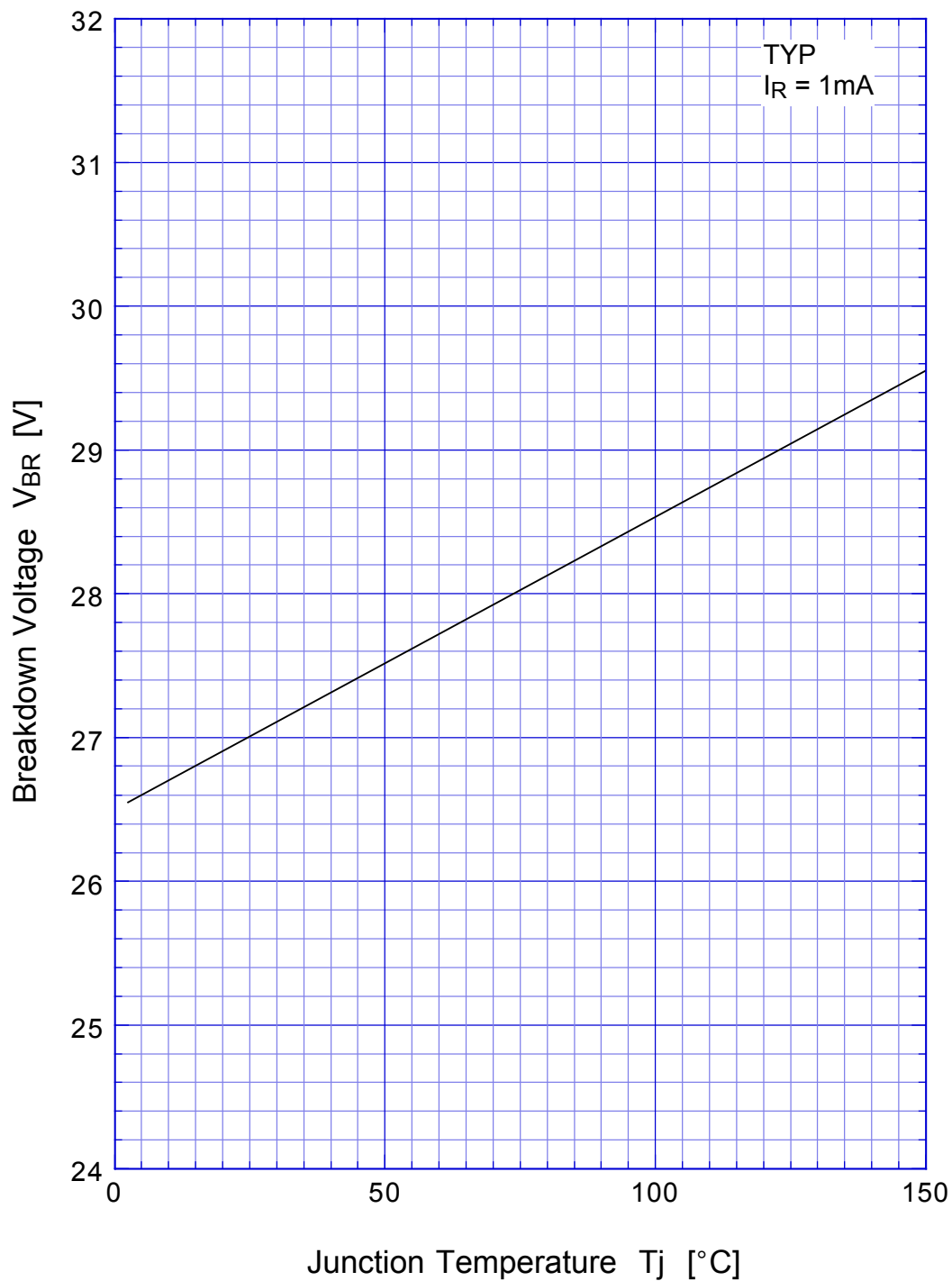
| Item | Symbol | Conditions | Ratings | Unit |
|-------------------|----------|-----------------|-----------|---------|
| Breakdown Voltage | V_{BR} | $I_R = 1mA$ | 24.3~29.7 | V |
| Clamping Voltage | V_{CL} | $I_{PP} = 180A$ | MAX 40 | V |
| Off-State Current | I_R | $V_R = V_{RM}$ | MAX 5 | μ A |

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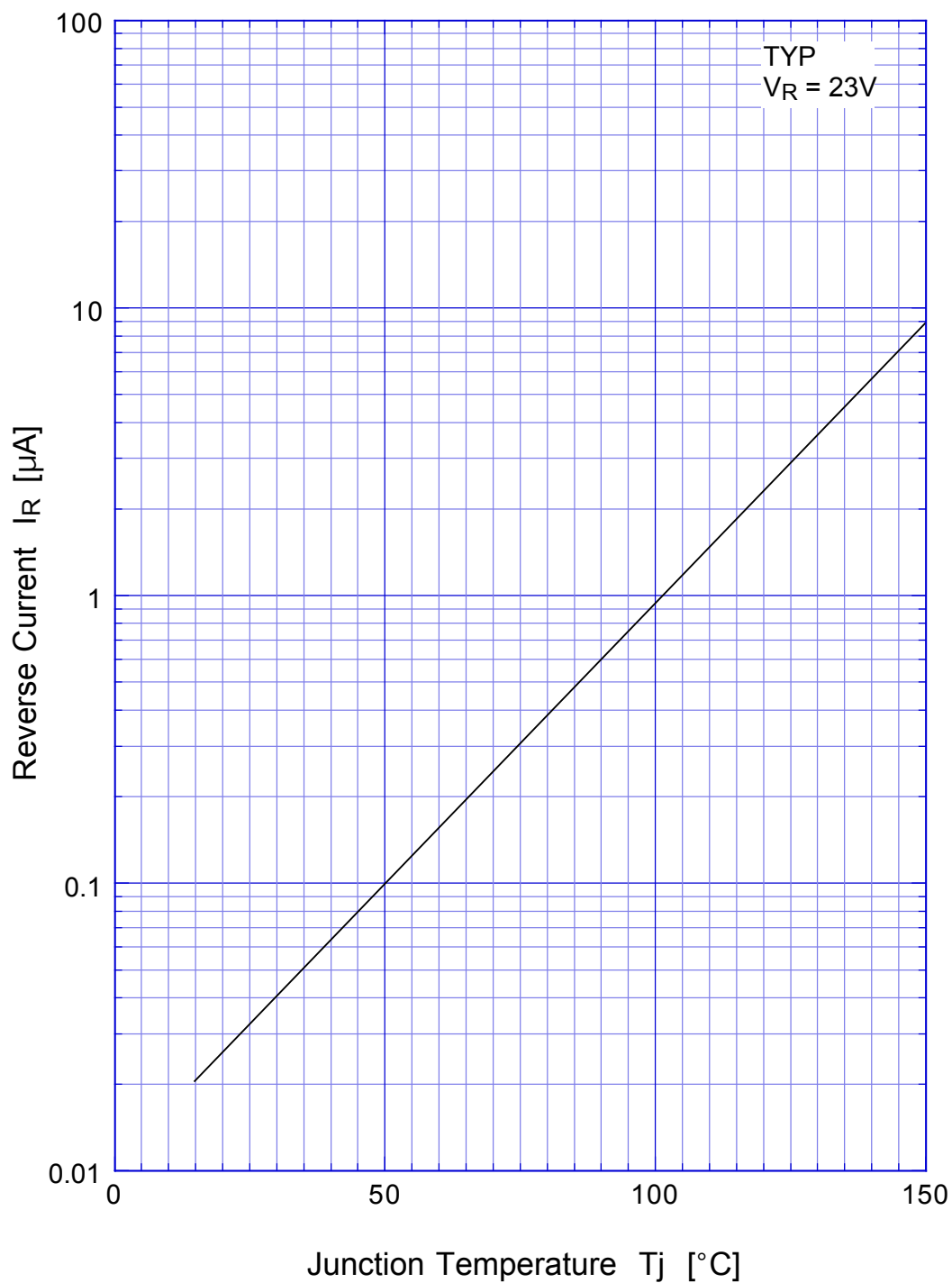
Clamping Voltage



ST70-27F Breakdown Voltage

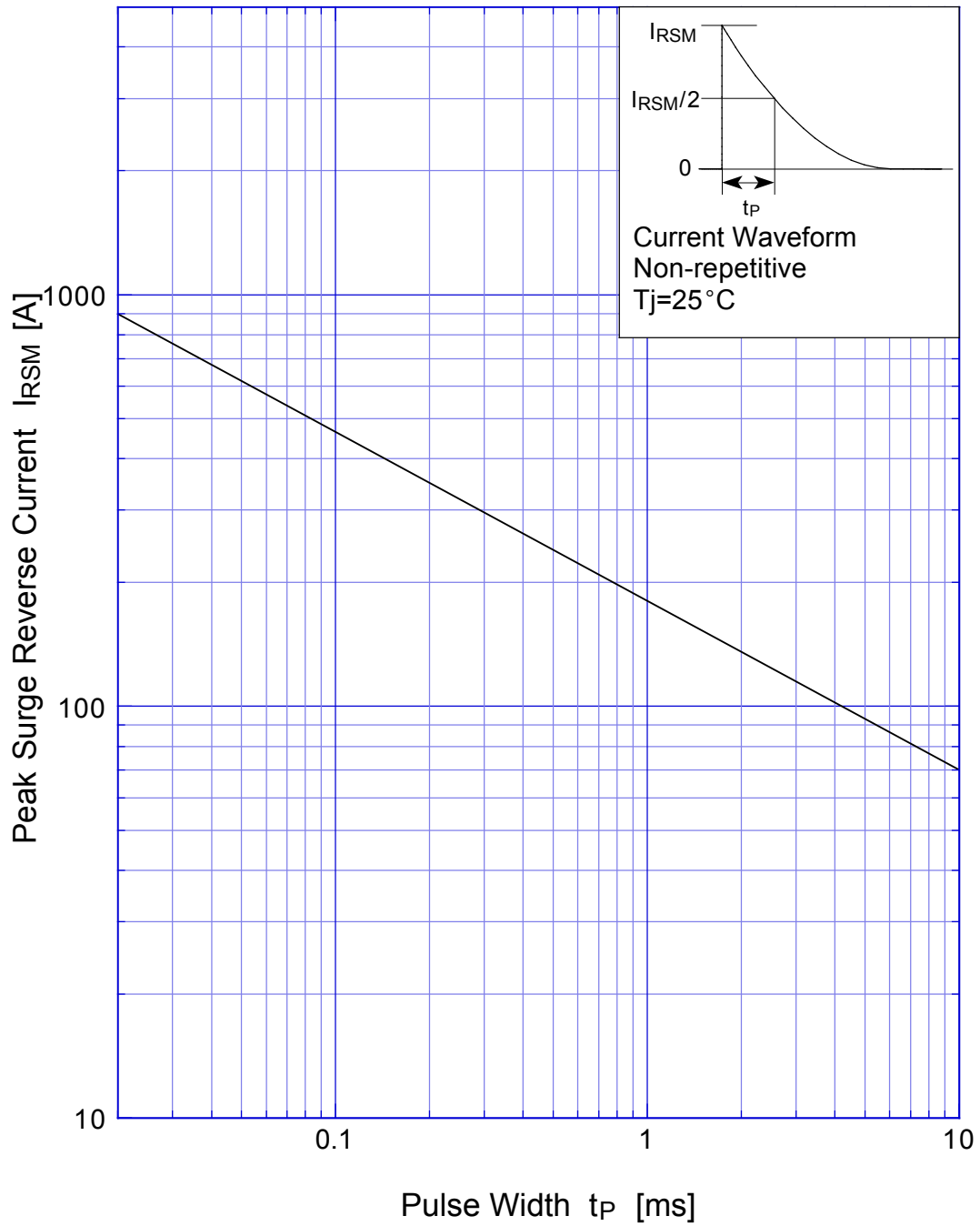


ST70-27F Reverse Current

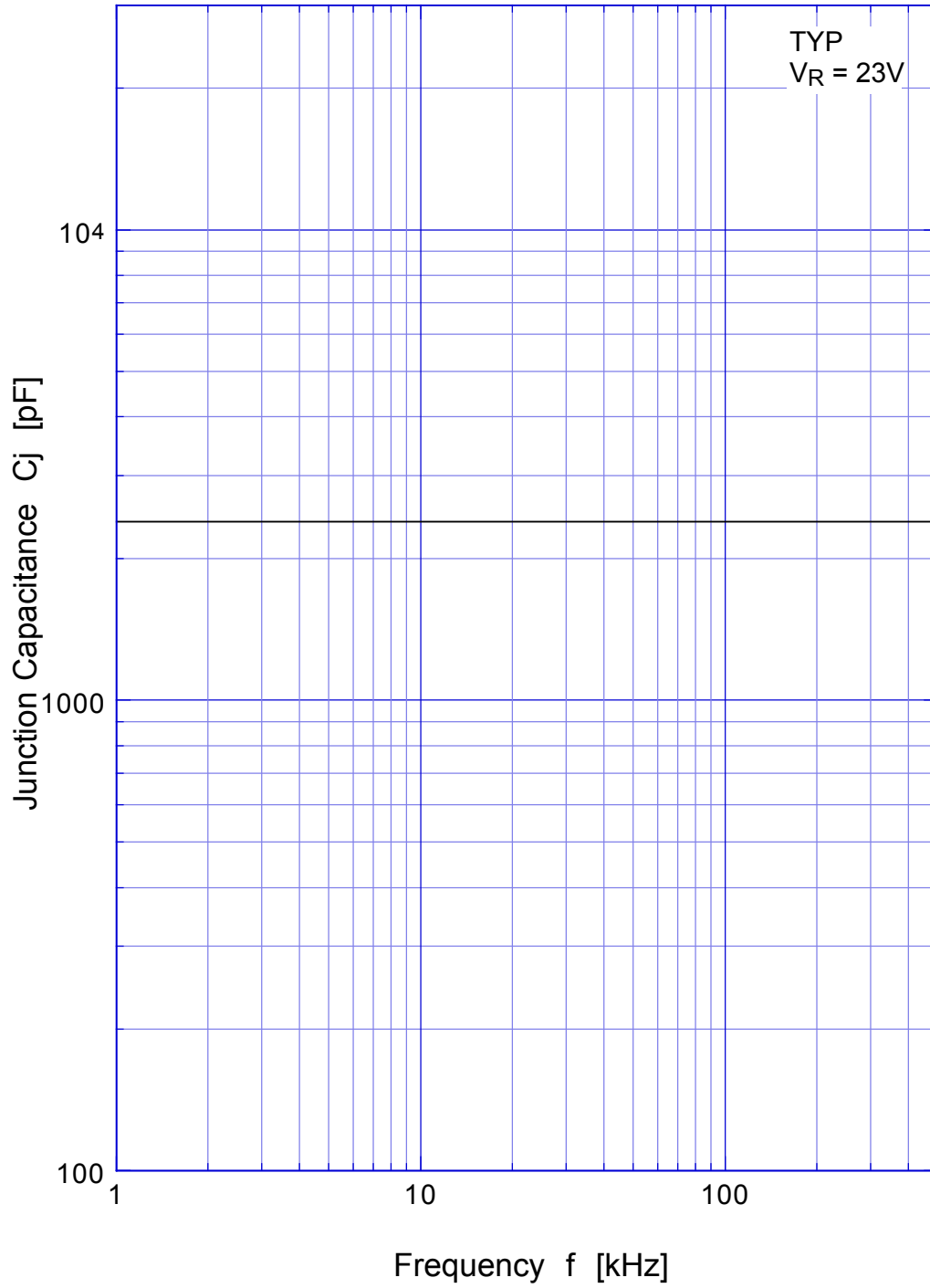


ST70-27F

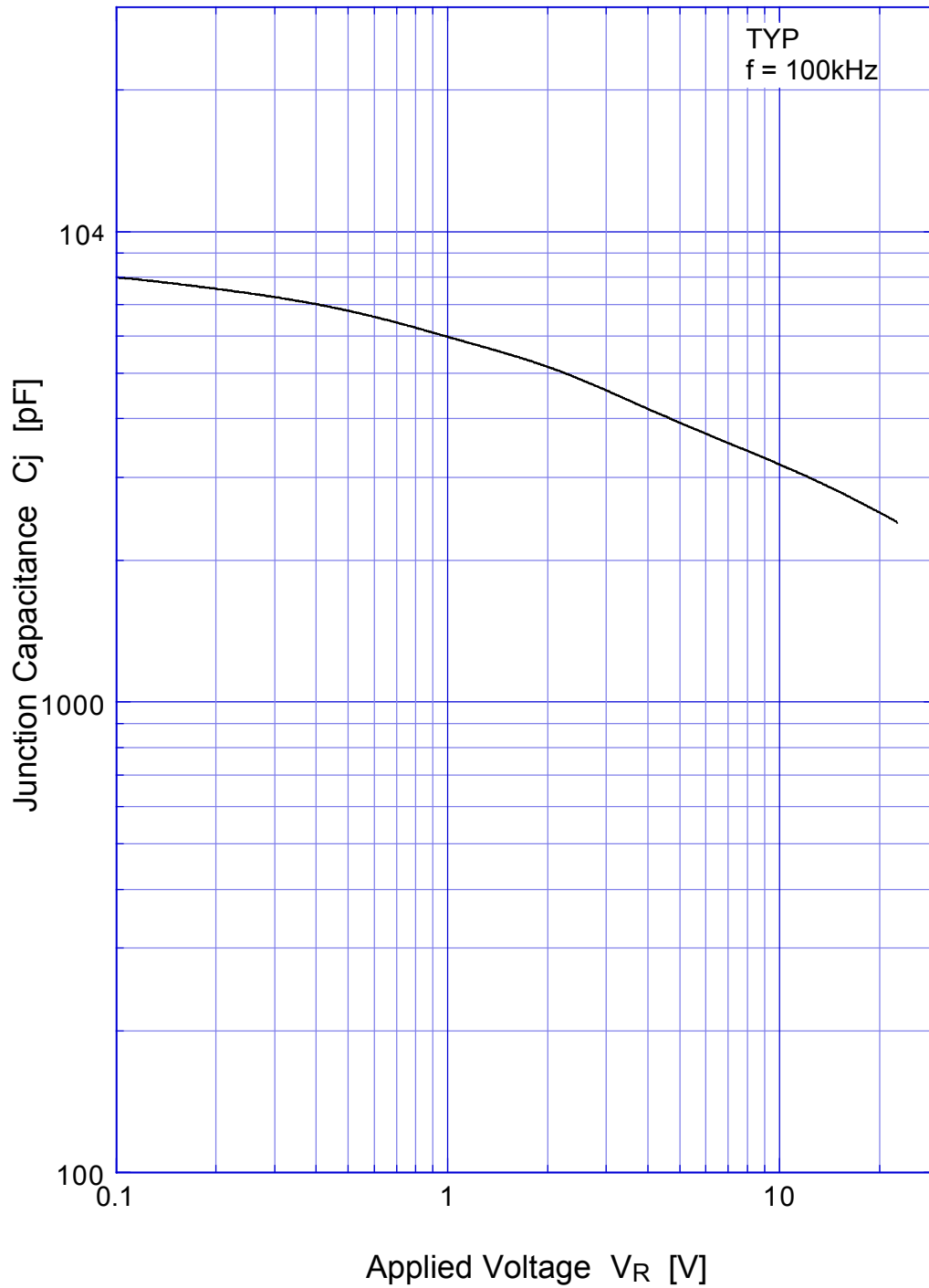
Peak Surge Reverse Current



ST70-27F Junction Capacitance

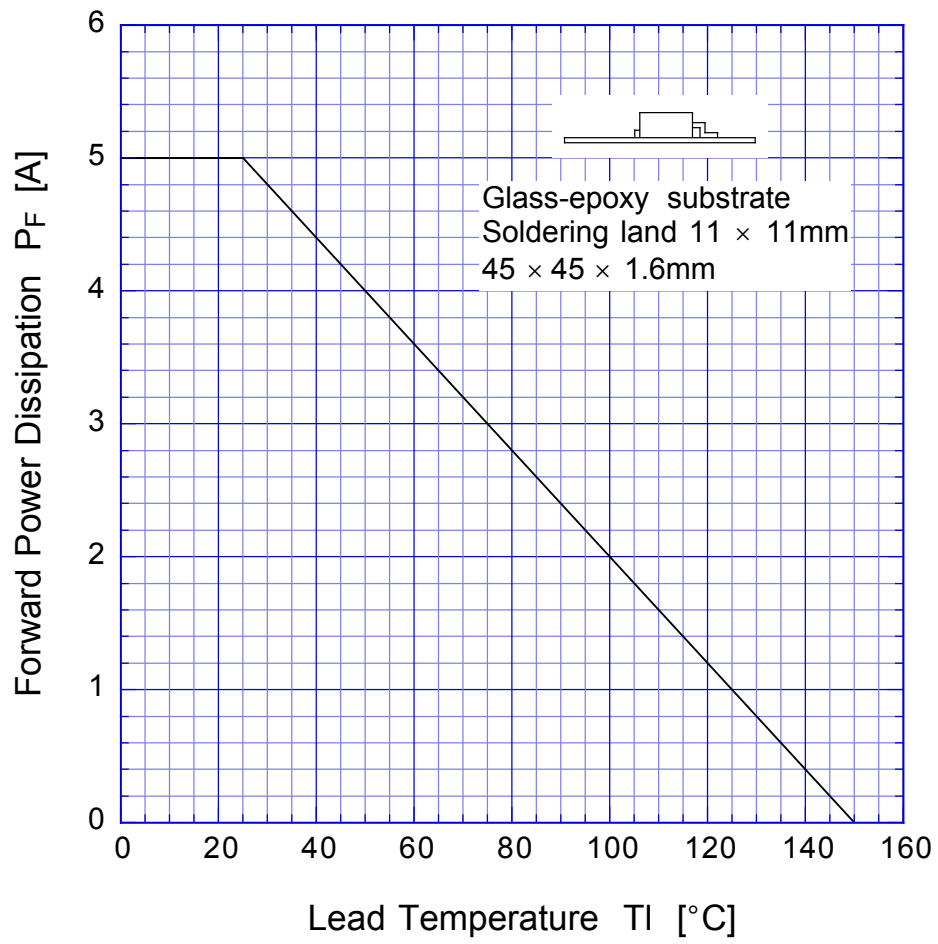


ST70-27F Junction Capacitance



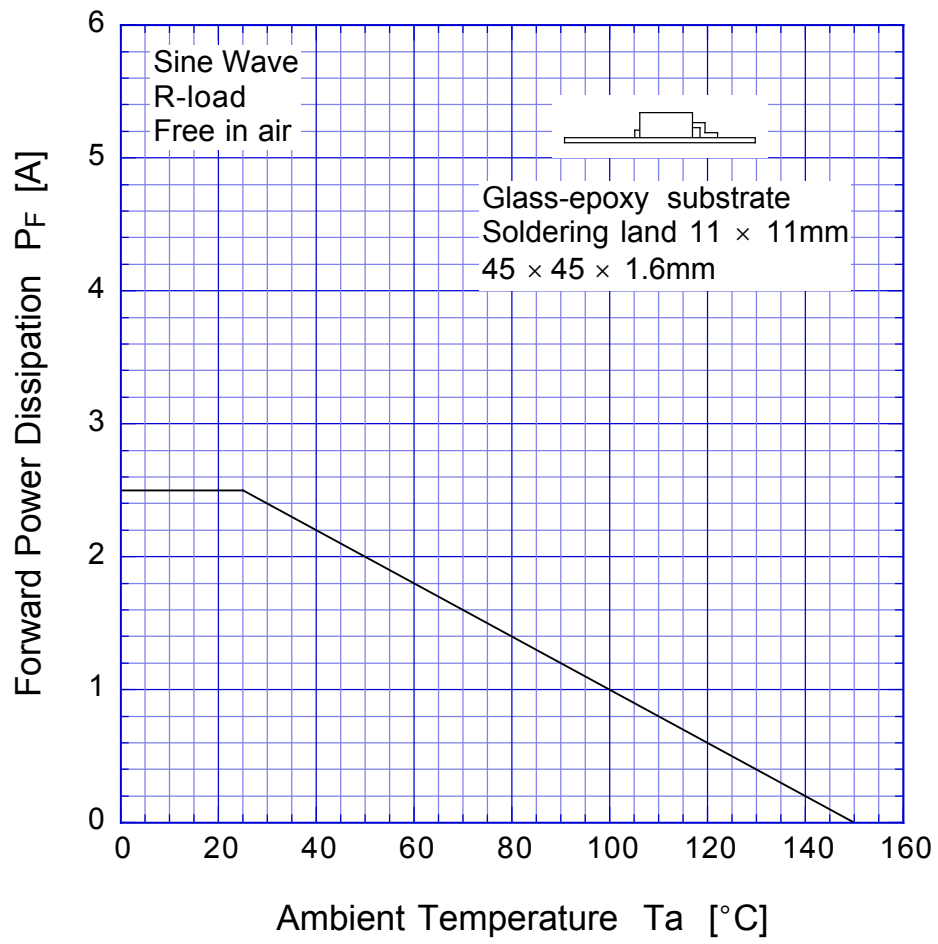
ST70-27F

Derating Curve

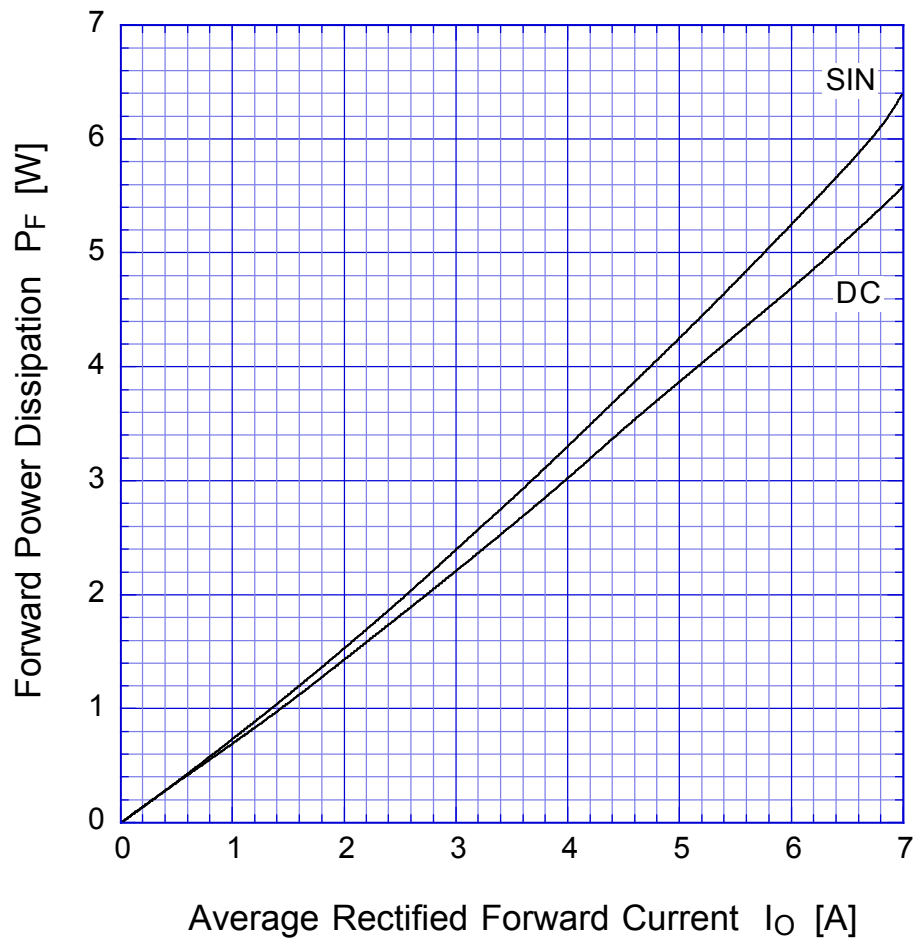


ST70-27F

Derating Curve



ST70-27F Forward Power Dissipation



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