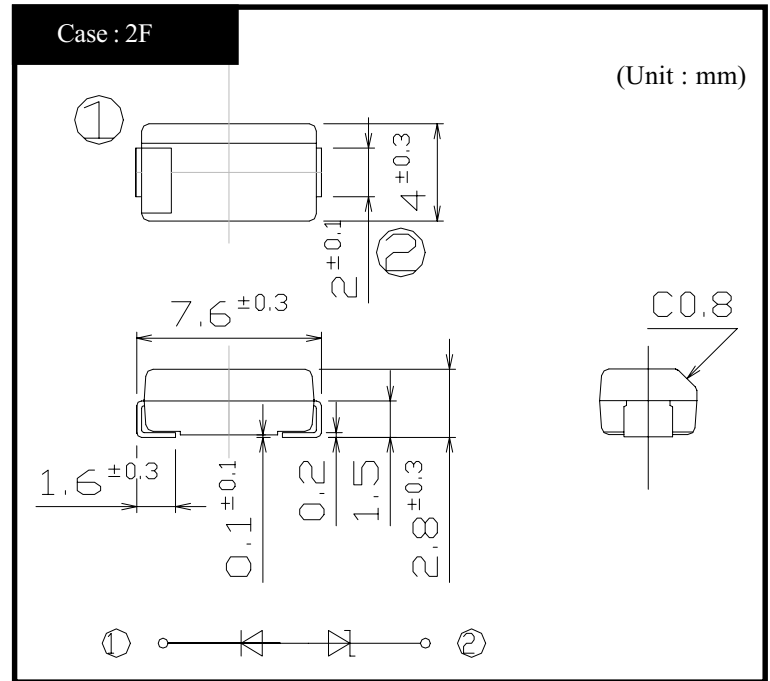


ST02D-170F2

OUTLINE DIMENSIONS



RATINGS

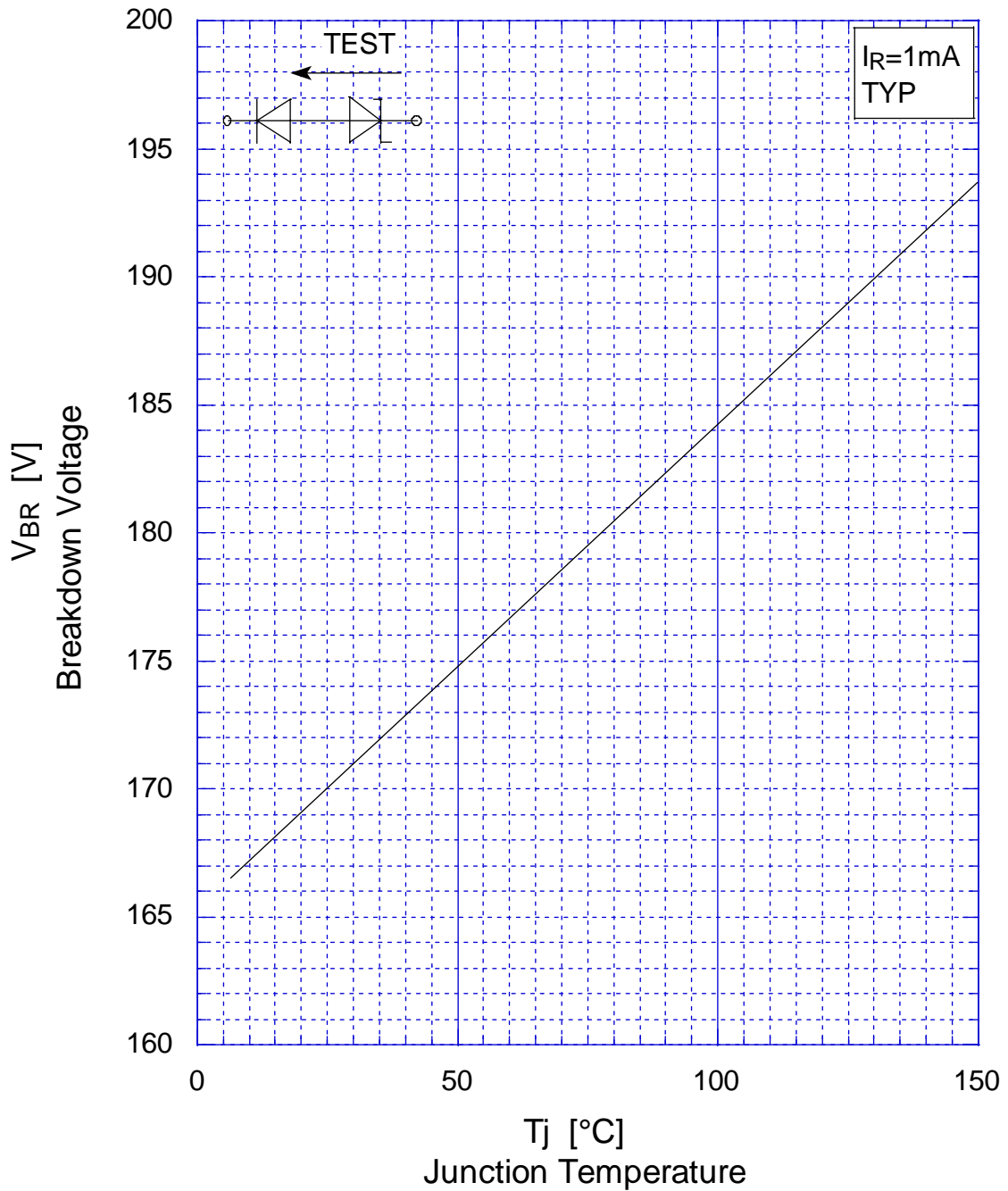
● Absolute Maximum Ratings (If not specified, Tl=25°C)

| Item | Symbol | Conditions | ZD | Di | Unit |
|----------------------------|------------------|-----------------------------|---------|---------|------|
| Storage Temperature | Tstg | | -40~150 | -40~150 | °C |
| Junction Temperature | Tj | | 150 | 150 | °C |
| Peak Surge Reverse Power | P _{RSM} | 10/1000 μ s, Non-repetitive | 200 | - | W |
| Peak Surge Reverse Current | I _{RSM} | 10/1000 μ s, Non-repetitive | 0.75 | - | A |
| Maximum Reverse Voltage | V _{RM} | | 145 | 600 | V |

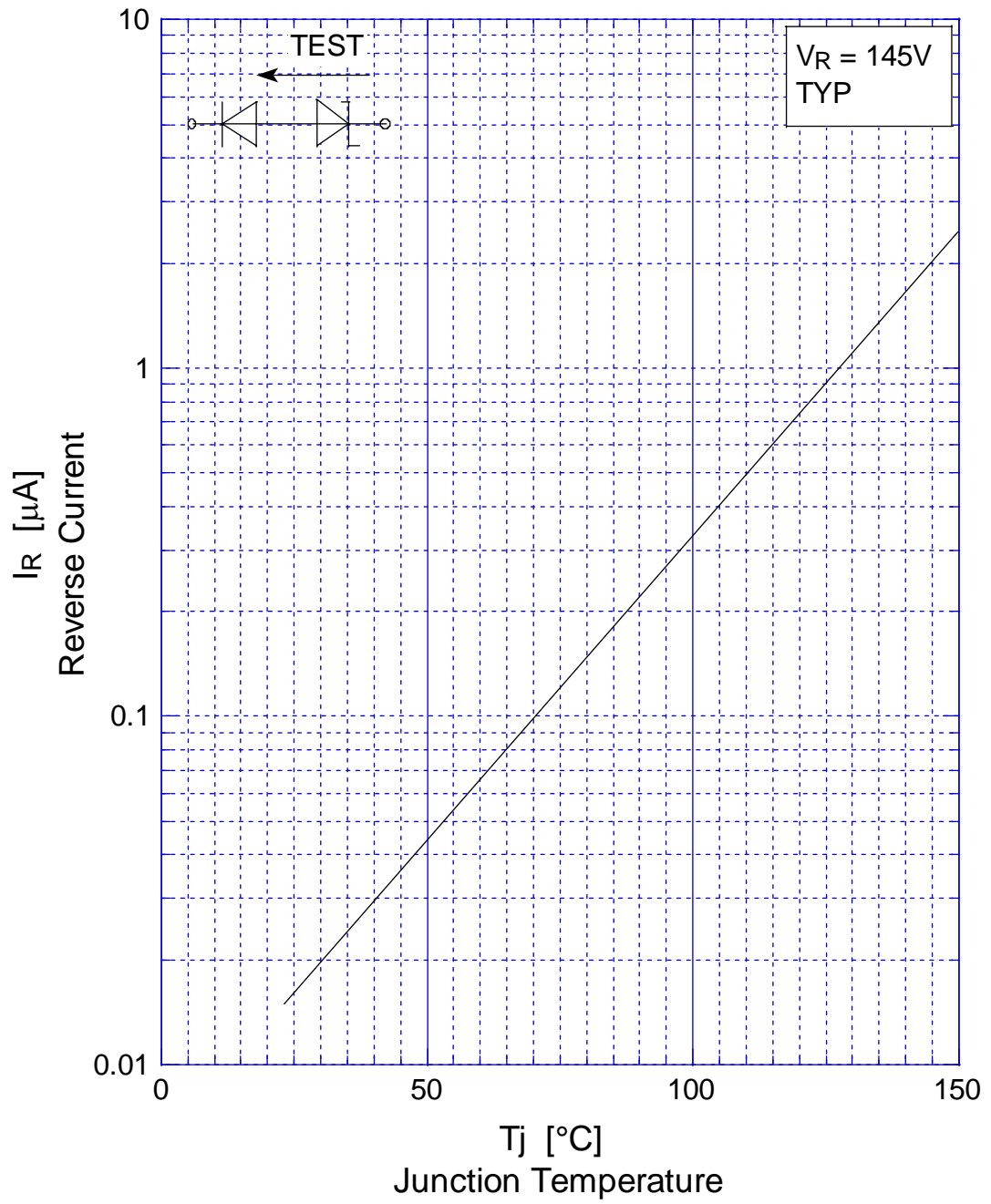
● Electrical Characteristics (If not specified, Tl=25°C)

| Item | Symbol | Conditions | ZD | Di | Unit |
|------------------------|-----------------|---|-------------------------------------|---------|------|
| Movement Start Voltage | V _{BR} | I _R = 1mA | MIN 155.0 STD 170.0 MAX 185.0 | - | V |
| Restriction Voltage | V _{CL} | I _{PP} = 0.75A | MAX 280 | - | V |
| Leak Current | I _R | V _R = 145V | MAX 5.0 | - | μ A |
| | | V _R = 600V | - | MAX 5.0 | |
| Reverse Recovery Time | t _{rr} | I _F /I _R =0.1A/0.3A | - | MAX 500 | ns |
| Thermal Resistance | θ _{jl} | Junction to lead | MAX 24 | MAX 24 | °C/W |

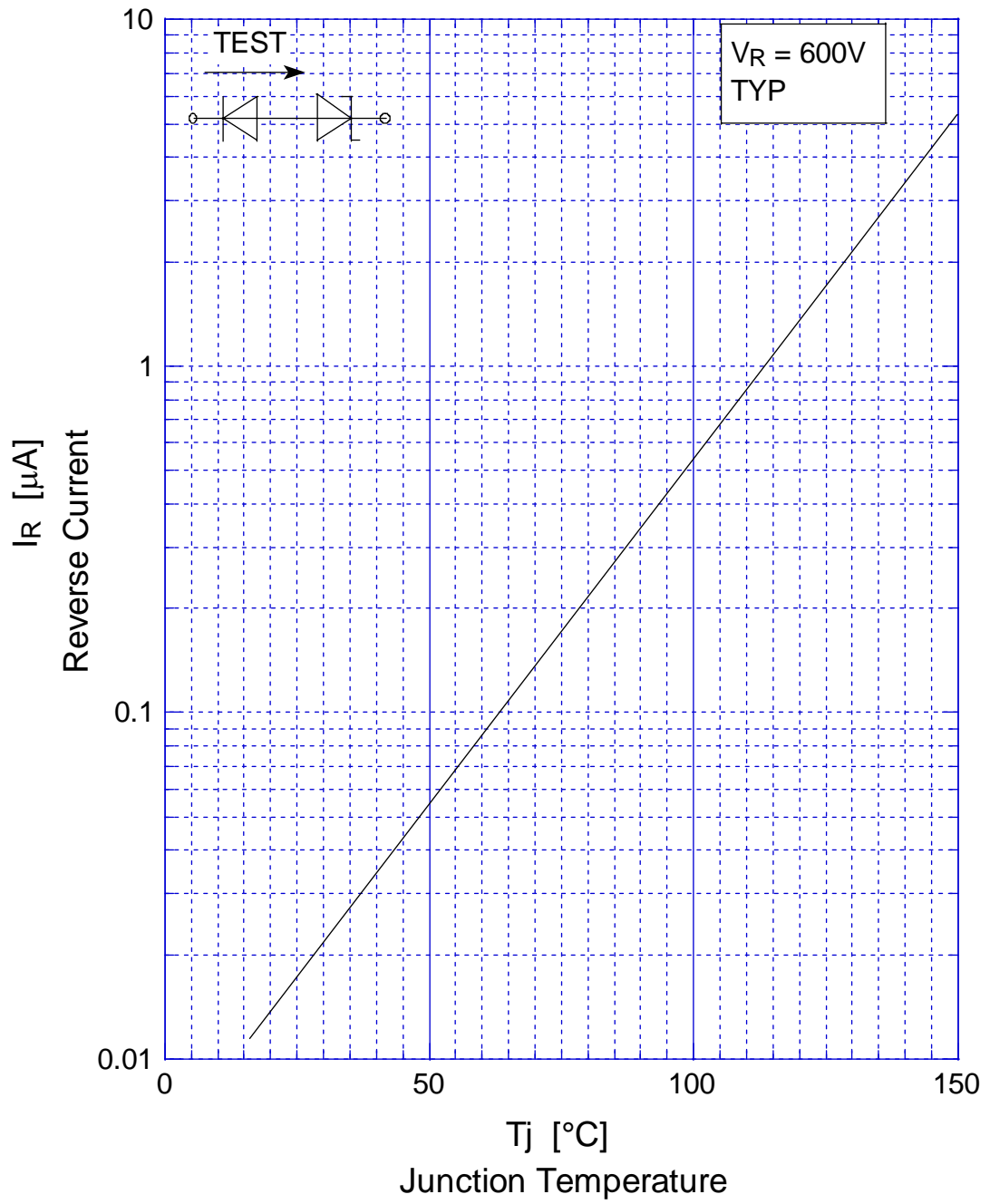
ST02D-170F2 Breakdown Voltage - Junction Temperature



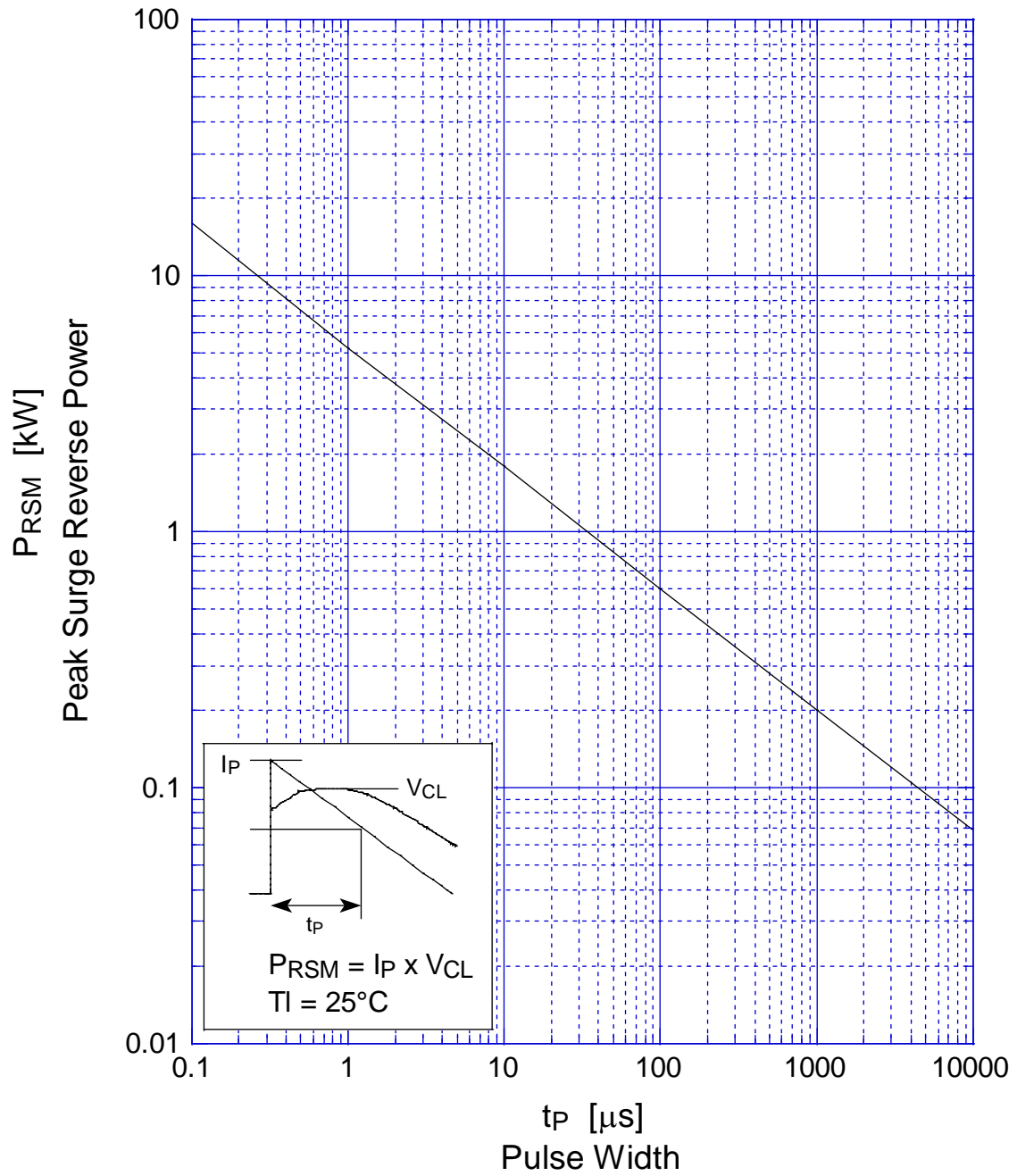
ST02D-170F2 Reverse Current - Junction Temperature



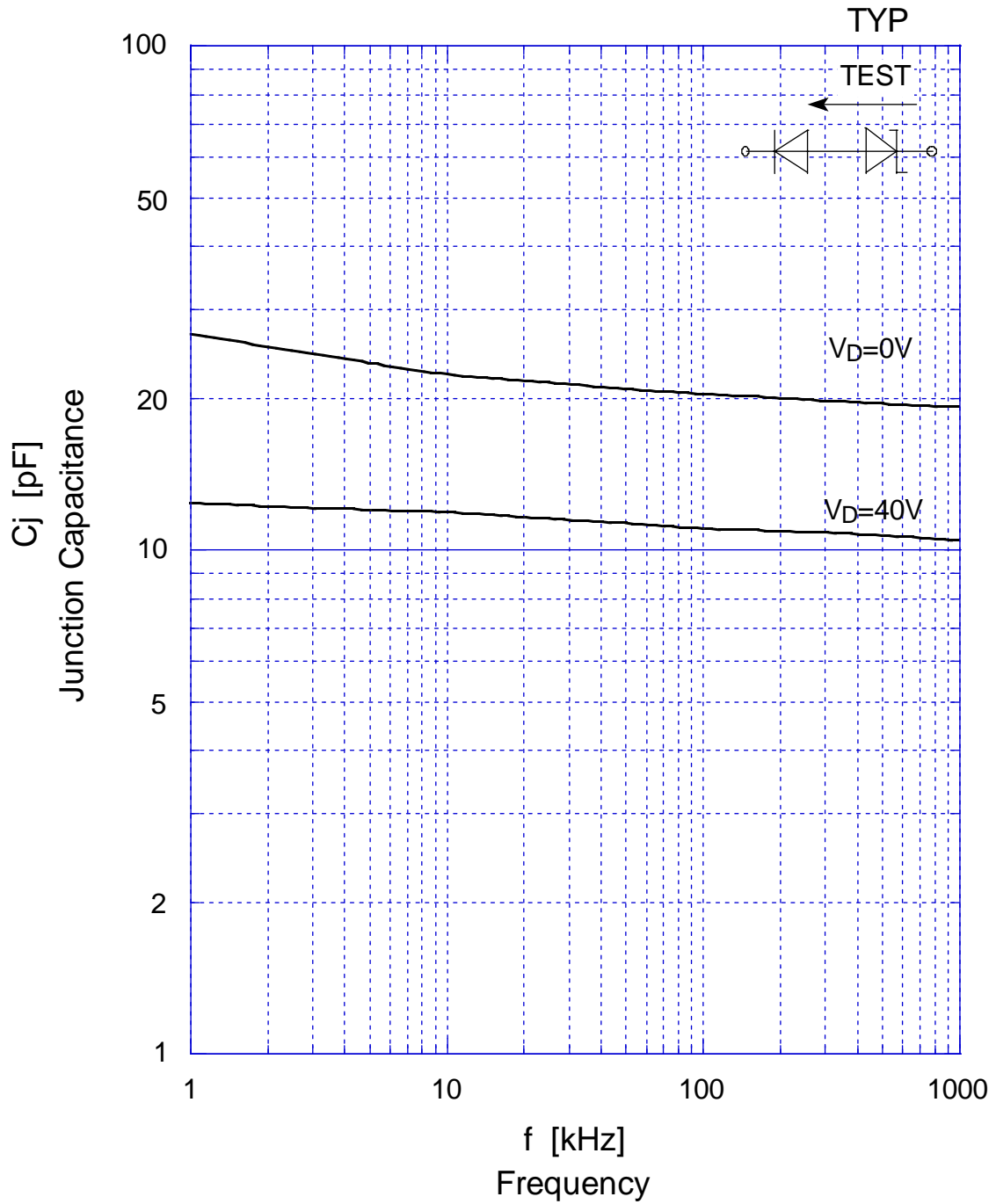
ST02D-170F2 Reverse Current - Junction Temperature



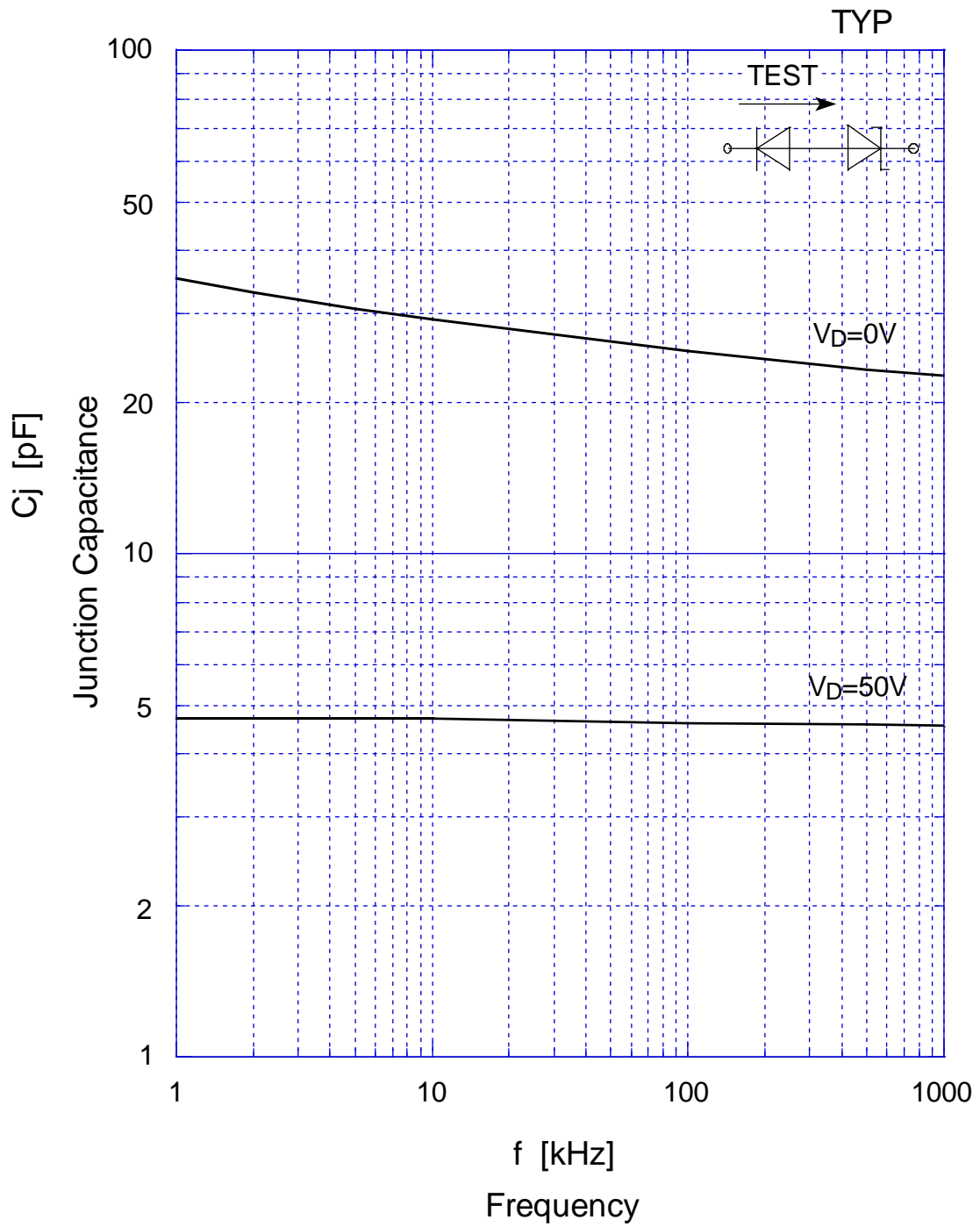
ST02D-170F2 Peak Surge Reverse Power



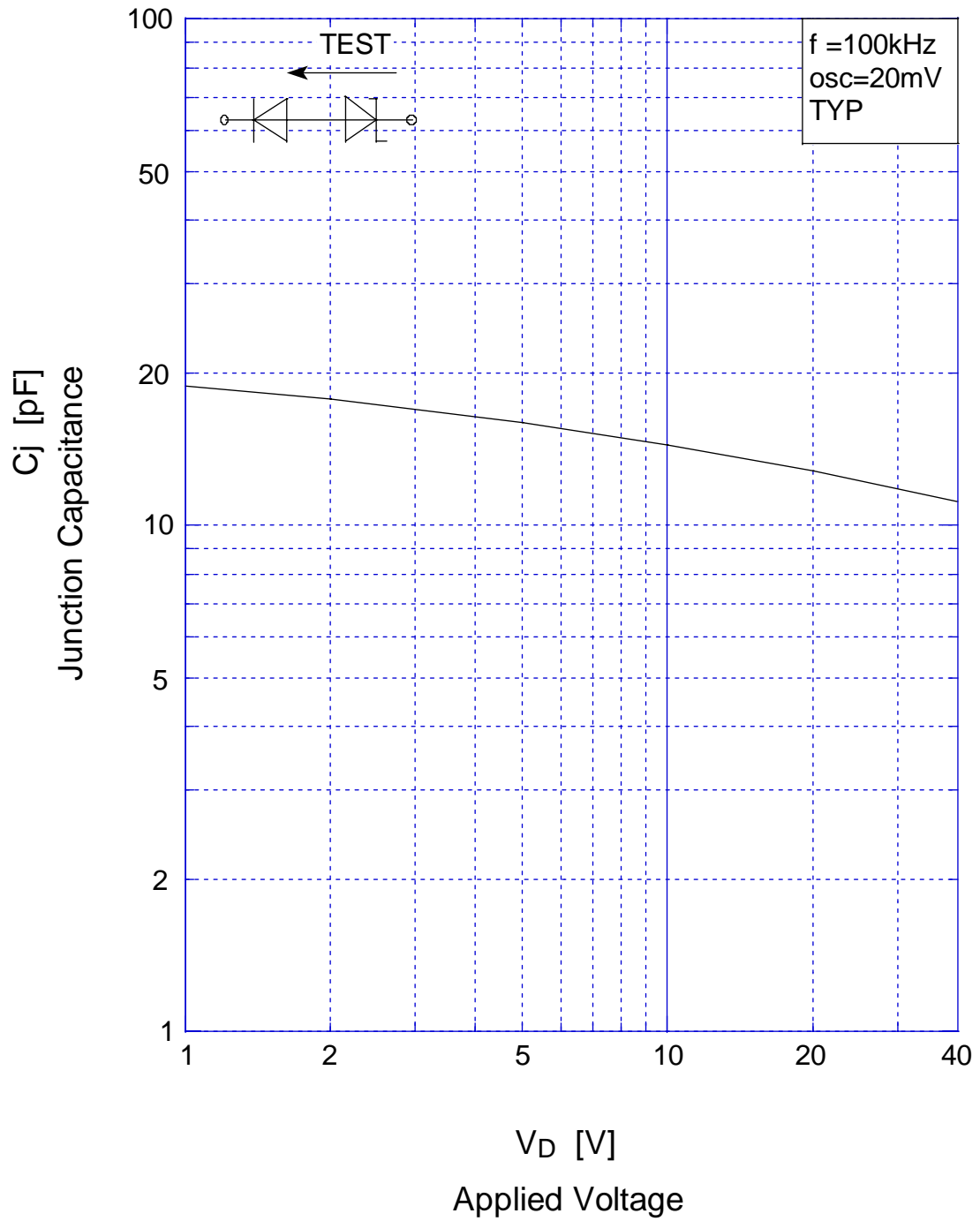
ST02D-170F2 Junction Capacitance - Frequency



ST02D-170F2 Junction Capacitance - Frequency



ST02D-170F2 Junction Capacitance - Applied Voltage



ST02D-170F2 Junction Capacitance - Applied Voltage

