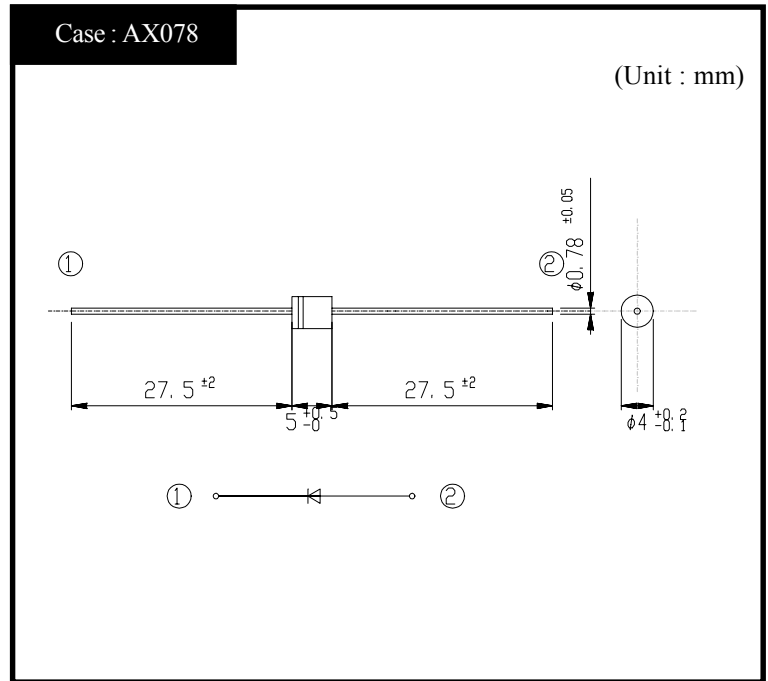


# ST02D-170

## OUTLINE DIMENSIONS



## RATINGS

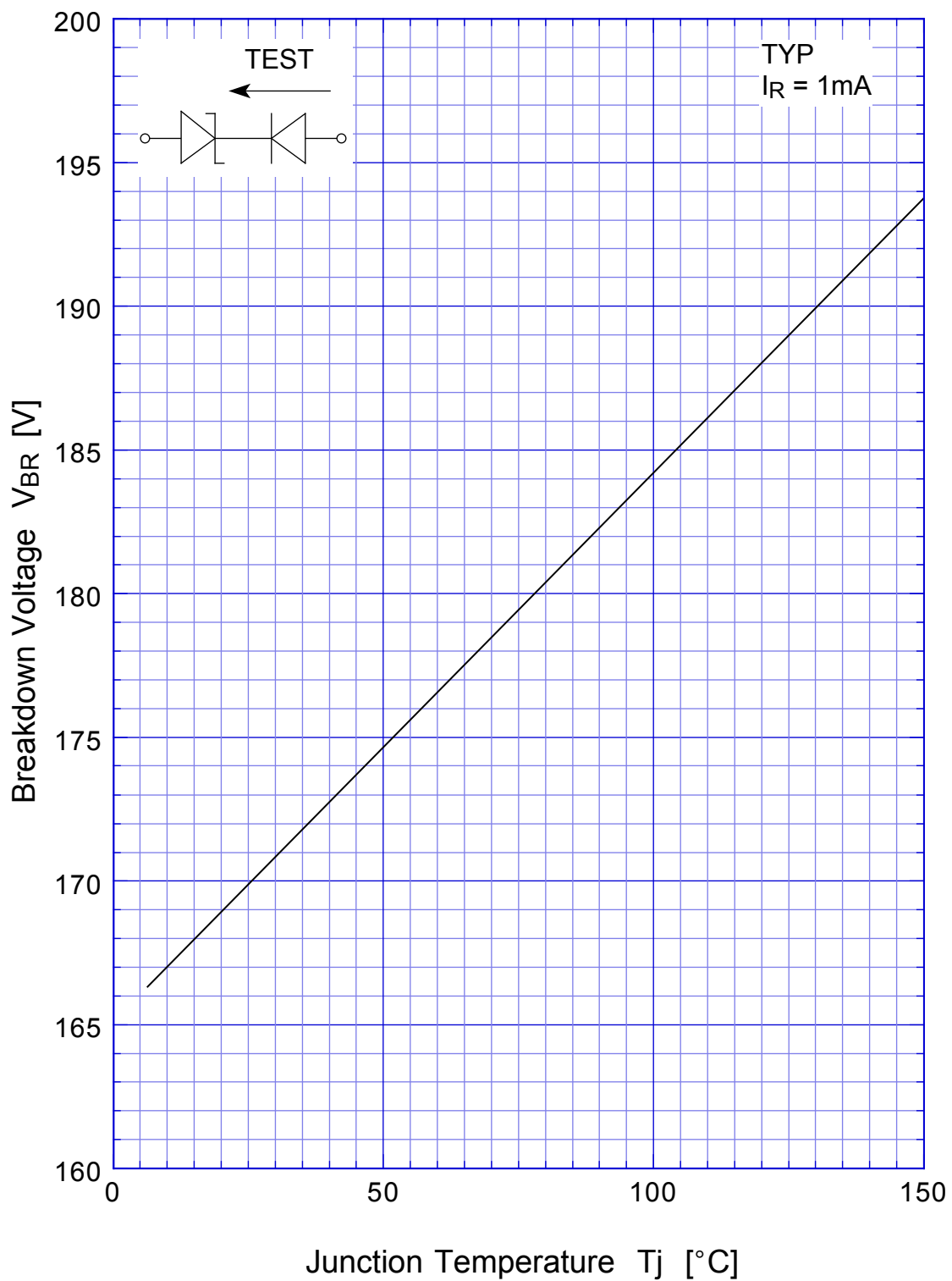
### ● Absolute Maximum Ratings (Tl=25°C)

| Item                       | Symbol           | Conditions                  | ZD      | Di      | Unit |
|----------------------------|------------------|-----------------------------|---------|---------|------|
| Storage Temperature        | T <sub>stg</sub> |                             | -40~150 | -40~150 | °C   |
| Junction Temperature       | T <sub>j</sub>   |                             | 150     | 150     | °C   |
| Peak Surge Reverse Power   | P <sub>RSM</sub> | 10/1000 μ s, Non-repetitive | 200     | -       | W    |
| Peak Surge Reverse Current | I <sub>RSM</sub> | 10/1000 μ s, Non-repetitive | 0.75    | -       | A    |
| Maximum Reverse Voltage    | V <sub>RM</sub>  |                             | 145     | 600     | V    |

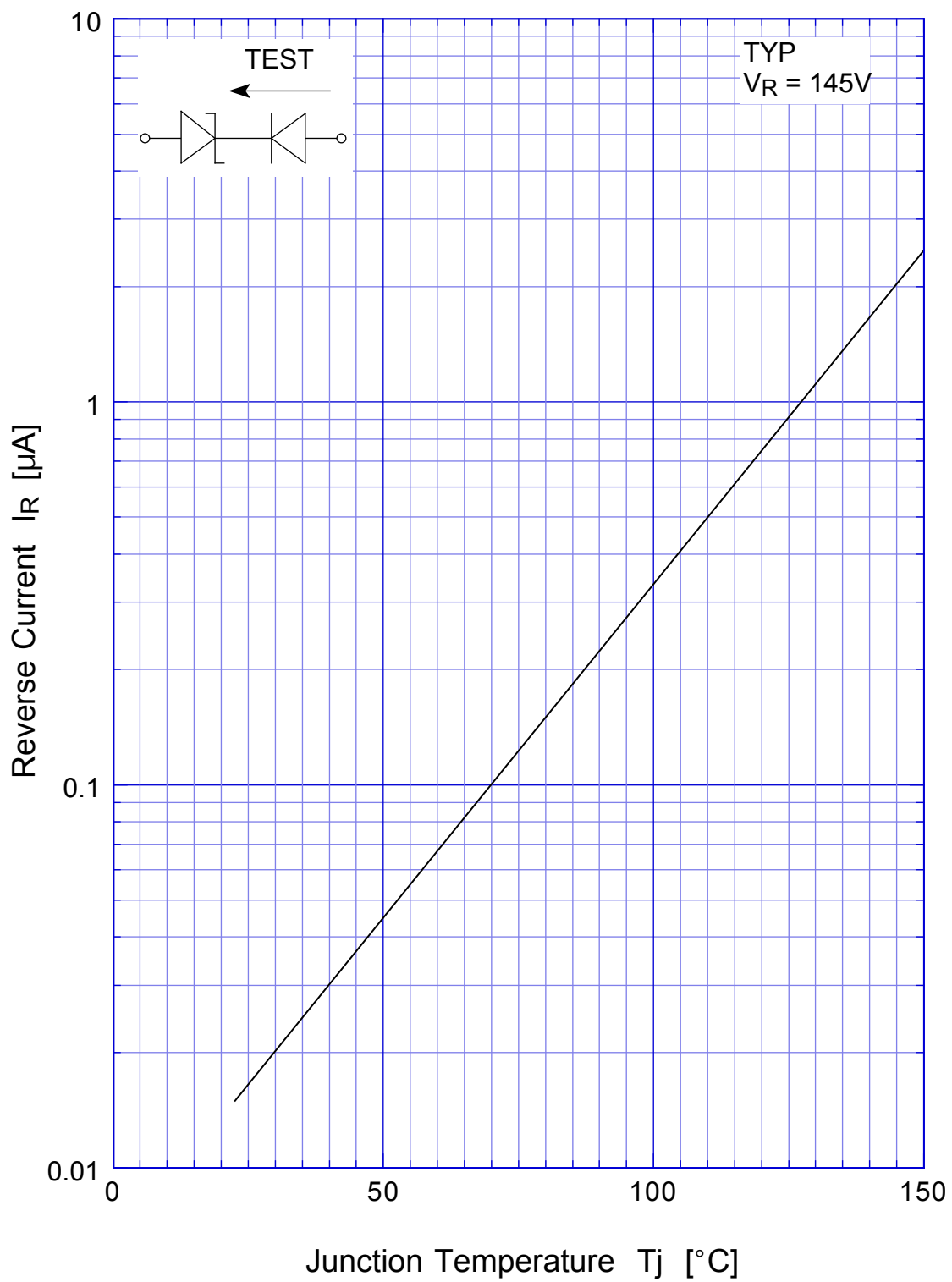
### ● Electrical Characteristics (Tl=25°C)

| Item                   | Symbol          | Conditions                                | ZD                            | Di      | Unit |
|------------------------|-----------------|---|-------------------------------|---------|------|
| Movement Start Voltage | V <sub>BR</sub> | I <sub>R</sub> = 1mA                      | MIN 155<br>TYP 170<br>MAX 185 | -       | V    |
| Restriction Voltage    | V <sub>CL</sub> | I <sub>PP</sub> = 0.75A                   | MAX 280                       | -       | V    |
| Leak Current           | I <sub>R</sub>  | V <sub>R</sub> = V <sub>RM</sub>          | MAX 5                         | MAX 5   | μ A  |
| Reverse Recovery Time  | t <sub>rr</sub> | I <sub>F</sub> /I <sub>R</sub> =0.1A/0.3A | -                             | MAX 500 | ns   |
| Thermal Resistance     | θ jL            | Junction to lead                          | MAX 17                        | MAX 17  | °C/W |

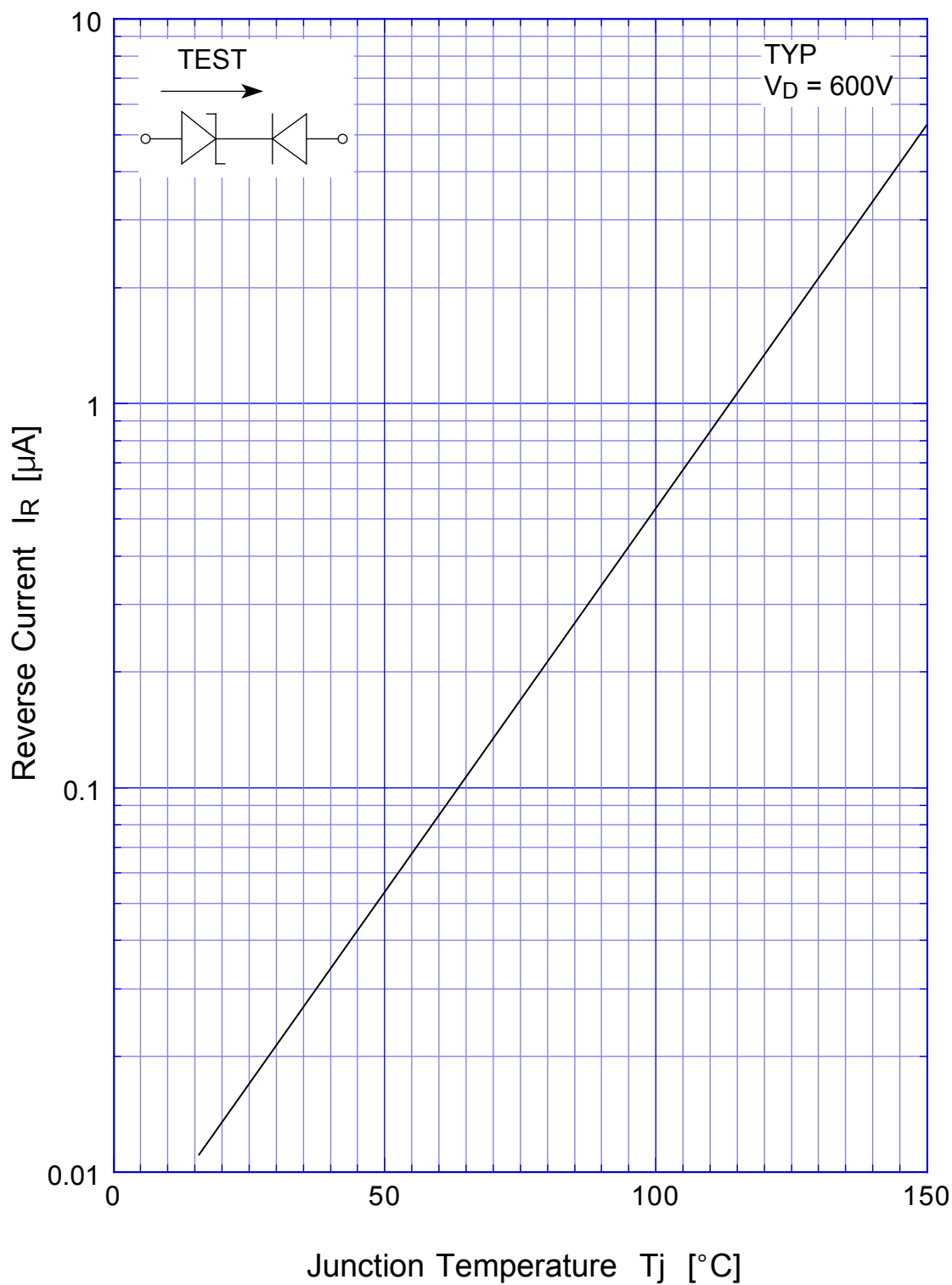
# ST02D-170 Breakdown Voltage



# ST02D-170 Reverse Current

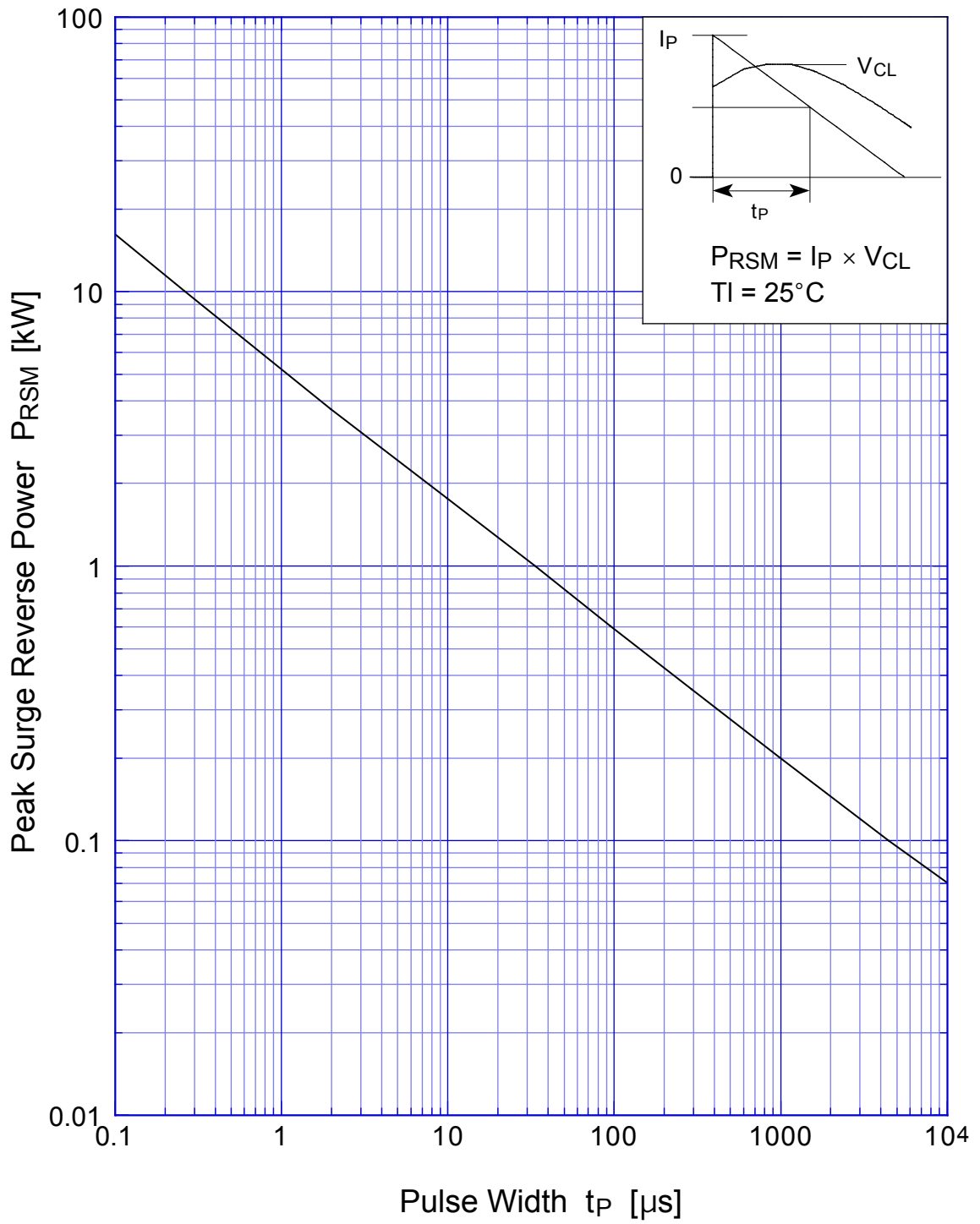


# ST02D-170 Reverse Current

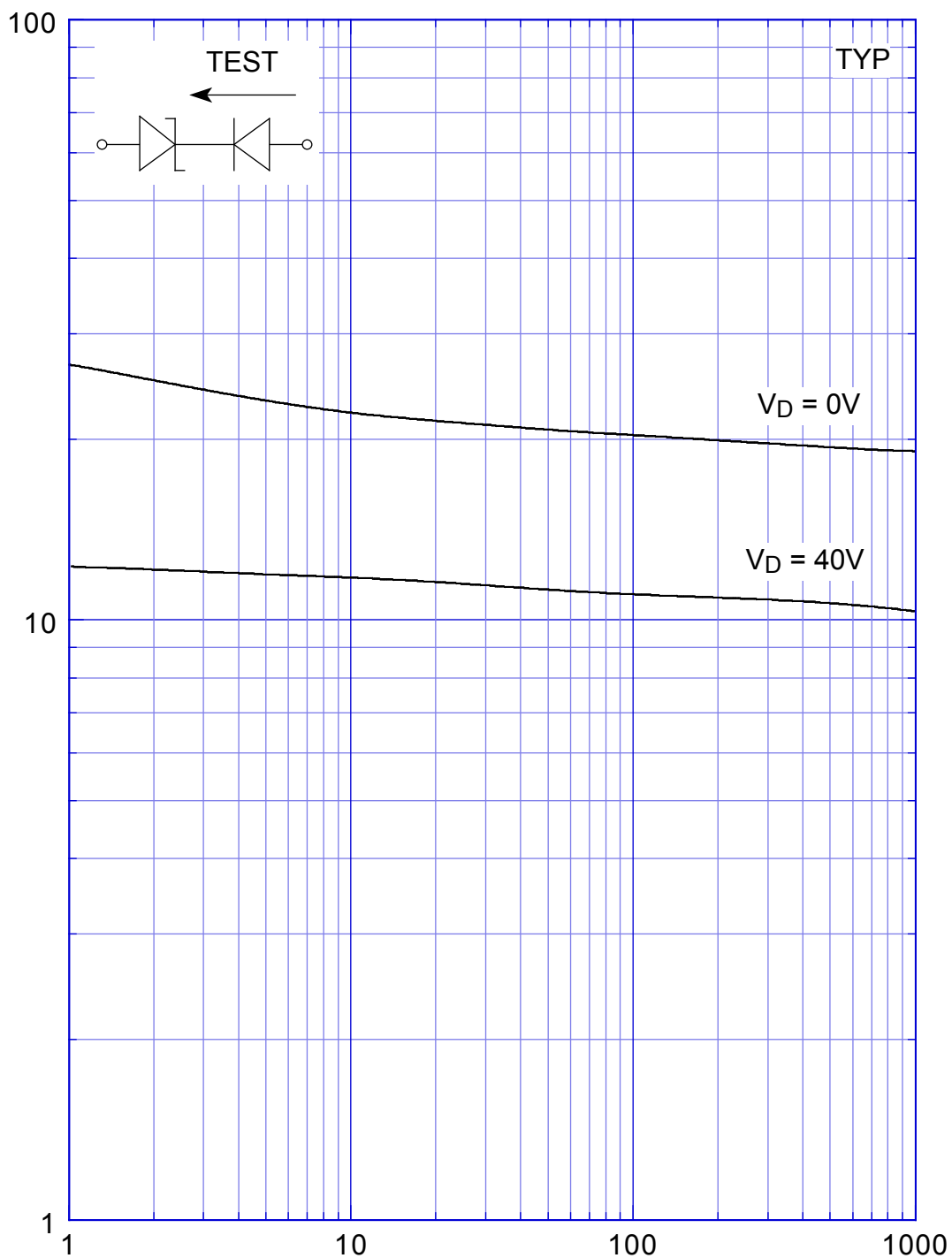


# ST02D-170

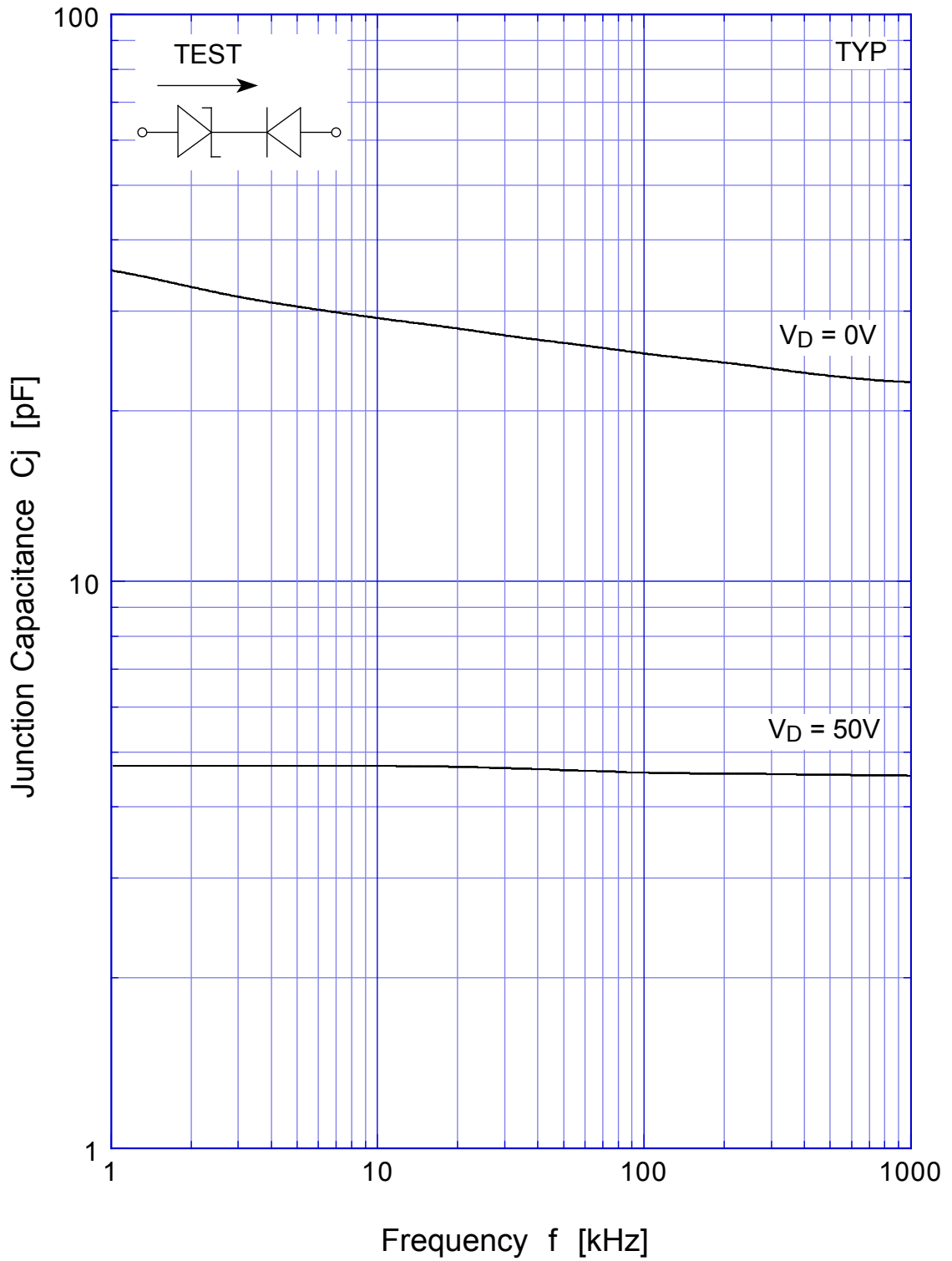
## Peak Surge Reverse Power



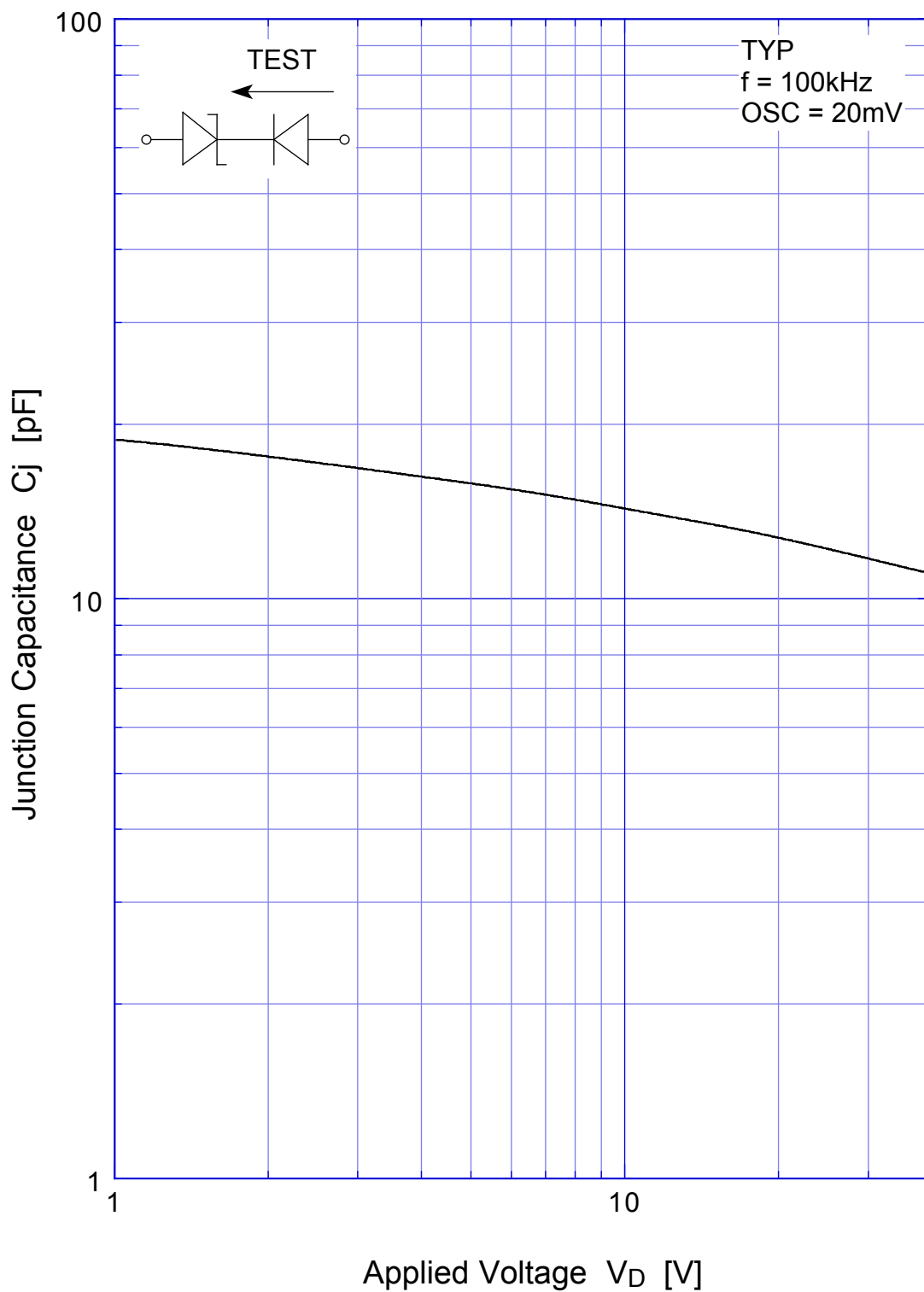
# ST02D-170 Junction Capacitance



# ST02D-170 Junction Capacitance



# ST02D-170 Junction Capacitance





# ST02D-170 Junction Capacitance

