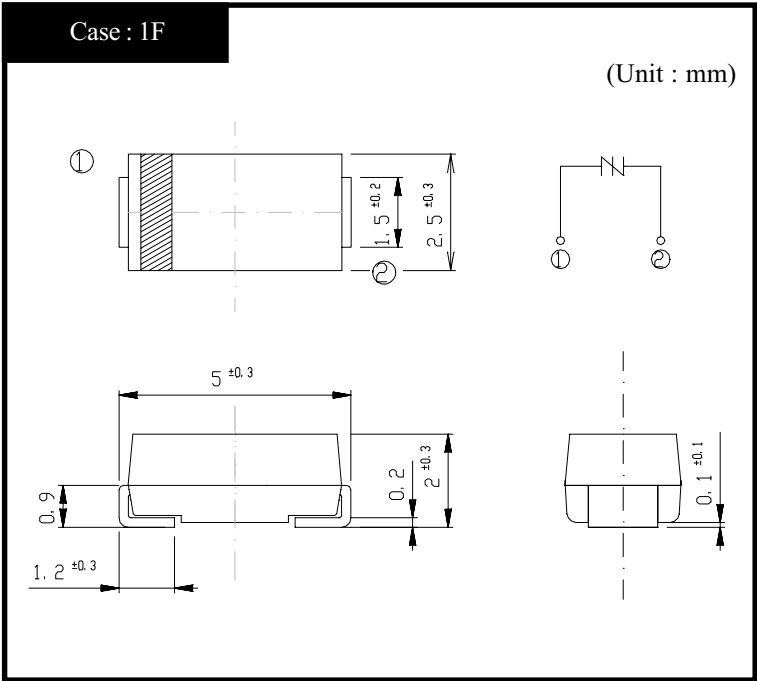


KL3R20

OUTLINE DIMENSIONS



RATINGS

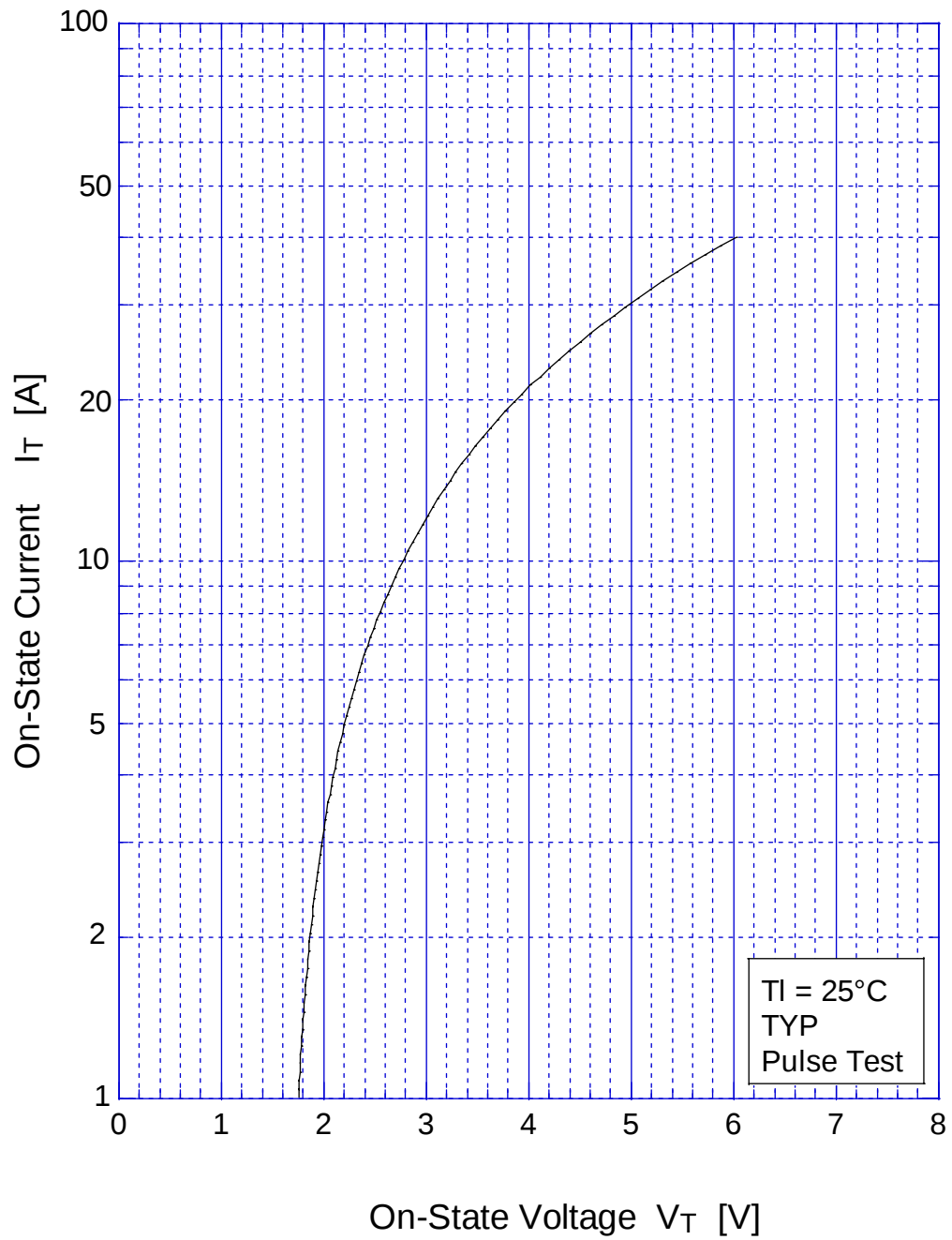
●Absolute Maximum Ratings

| Item                                       | Symbol           | Conditions                      | Ratings | Unit        |
|--------------------------------------------|------------------|---------------------------------|---------|-------------|
| Storage Temperature                        | T <sub>stg</sub> |                                 | -40~125 | °C          |
| Junction Temperature                       | T <sub>j</sub>   |                                 | 125     | °C          |
| Maximum Off-State Voltage                  | V <sub>DRM</sub> |                                 | 175     | V           |
| Surge On-State Current                     | I <sub>TSM</sub> | 10/1000 $\mu$ s, Non-repetitive | 30      | A           |
|                                            |                  | 8/20 $\mu$ s, Non-repetitive    | 100     |             |
| Critical Rate of Rise of Off-State Voltage | dv/dt            | V <sub>BO</sub> (min) / 0.63    | 1.5     | kV/ $\mu$ s |

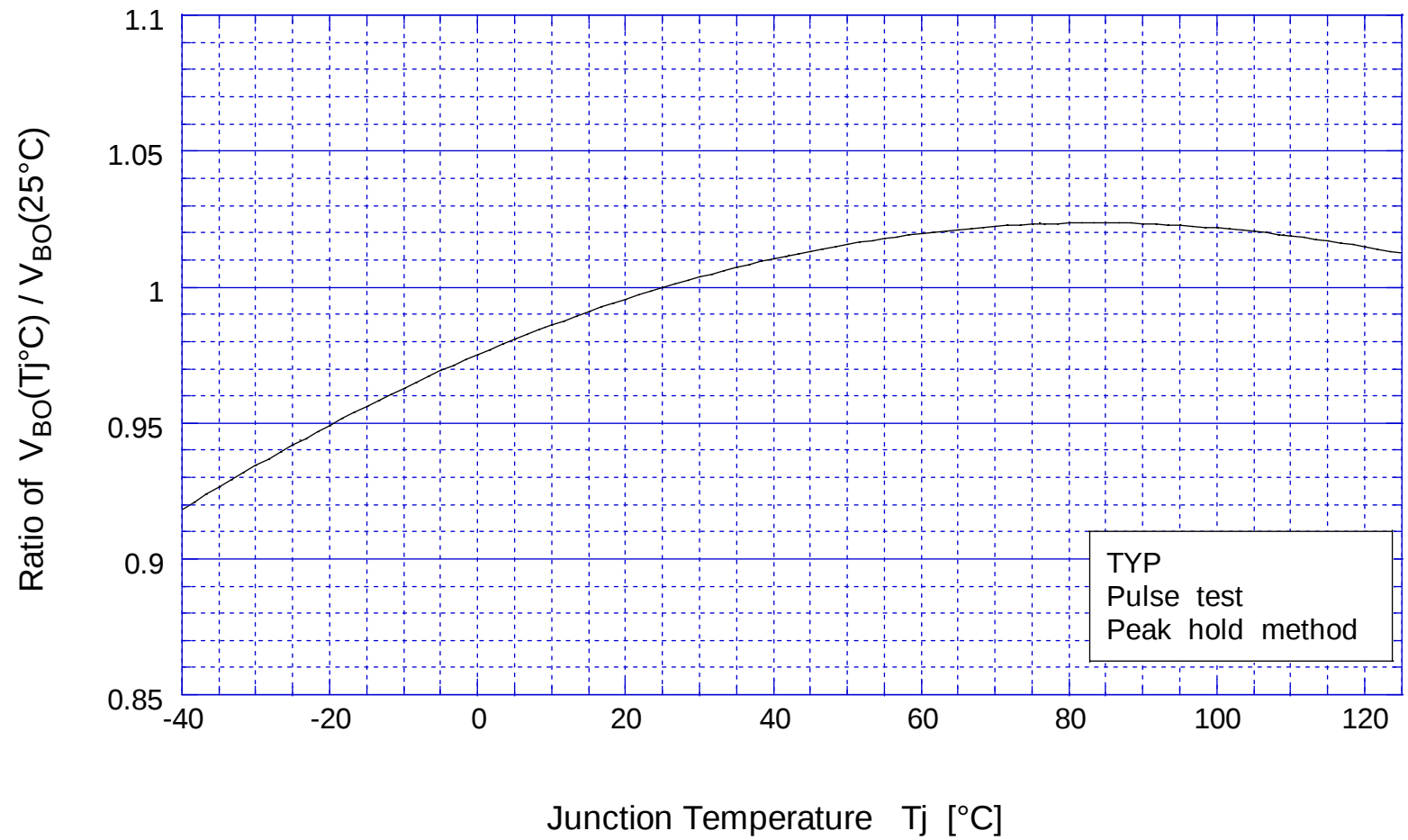
●Electrical Characteristics (Tl=25°C)

| Item                 | Symbol           | Conditions                                                   | Ratings | Unit    |
|----------------------|------------------|--------------------------------------------------------------|---------|---------|
| Breakover Voltage    | V <sub>BO</sub>  | Pulse measurement                                            | Min 180 | V       |
| Off-State Current    | I <sub>DRM</sub> | V <sub>D</sub> = V <sub>DRM</sub>                            | Max 10  | $\mu$ A |
| Holding Current      | I <sub>H</sub>   | Pulse measurement                                            | Min 100 | mA      |
| On-State Voltage     | V <sub>T</sub>   | I <sub>T</sub> = 2A                                          | TYP 1.8 | V       |
| Junction Capacitance | C <sub>j</sub>   | f = 1kHz<br>OSC = 1V <sub>RMS</sub> , V <sub>D</sub> = 50VDC | Max 30  | pF      |
| Clamping Voltage     | V <sub>CL</sub>  | dv/dt = 100V/ $\mu$ s                                        | Max 250 | V       |

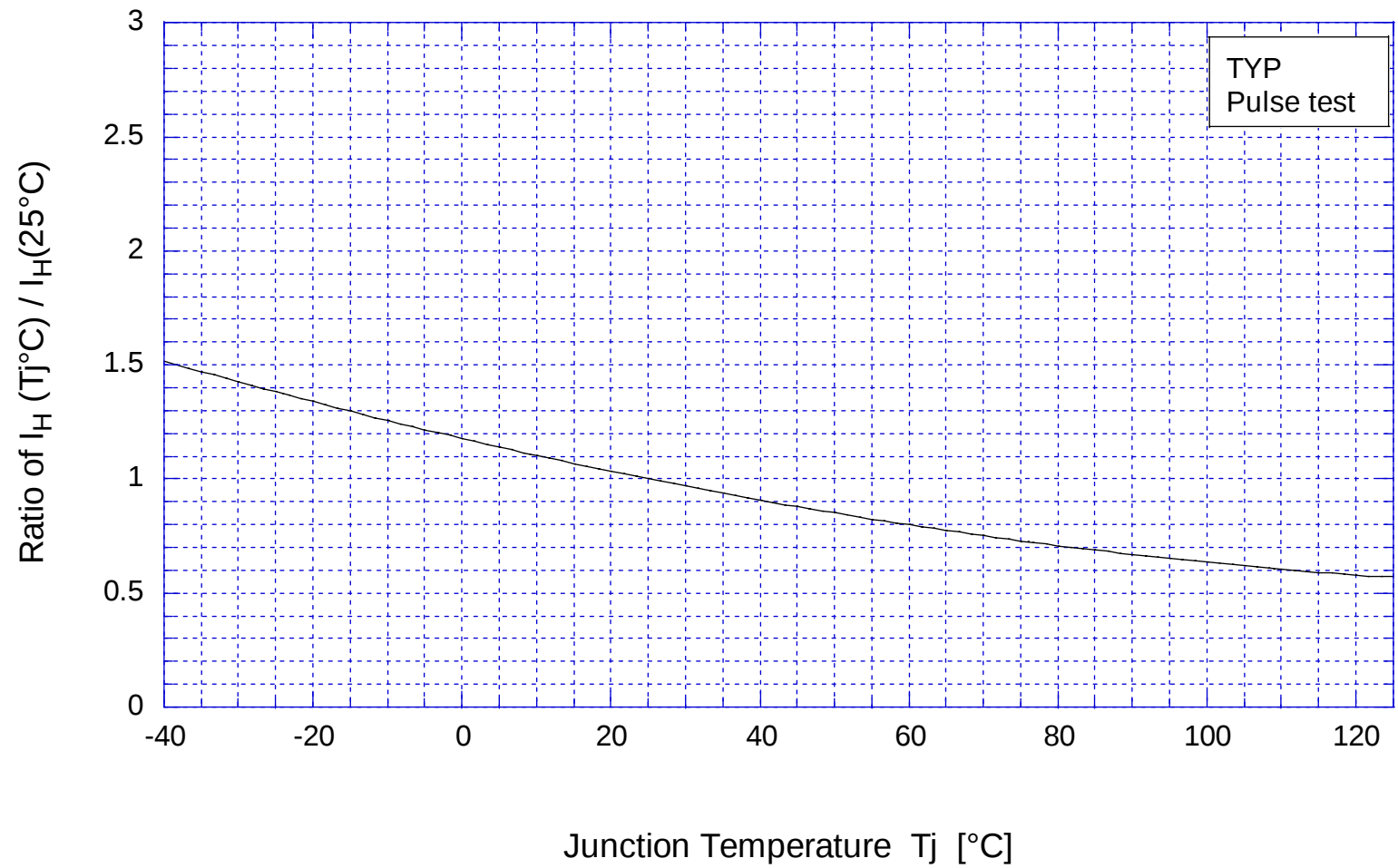
## KL3R20 On-State Voltage - On-State Current



## KL3R20 Breakover Voltage - Junction Temperature

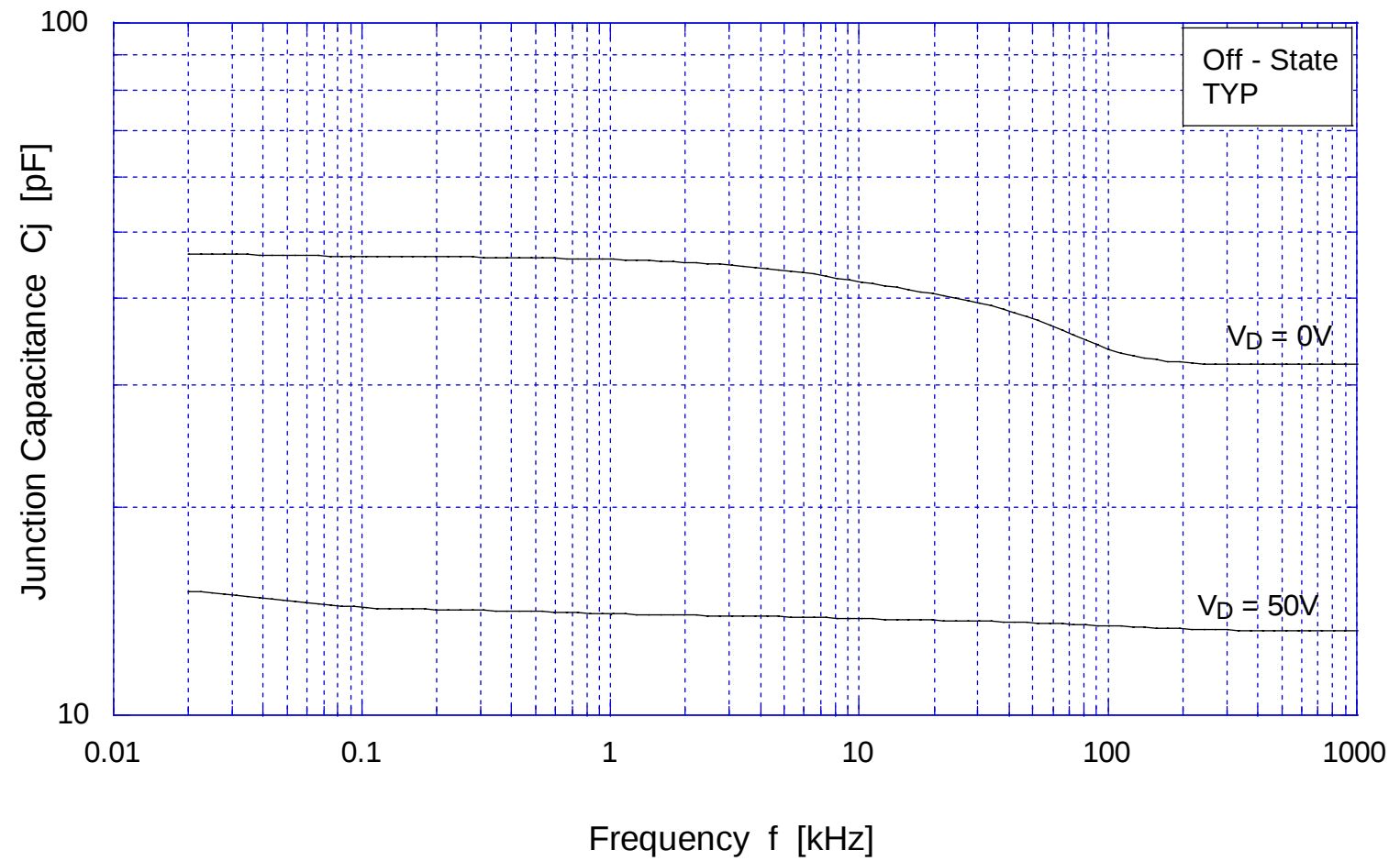


# KL3R20    Holding Current - Junction Temperature



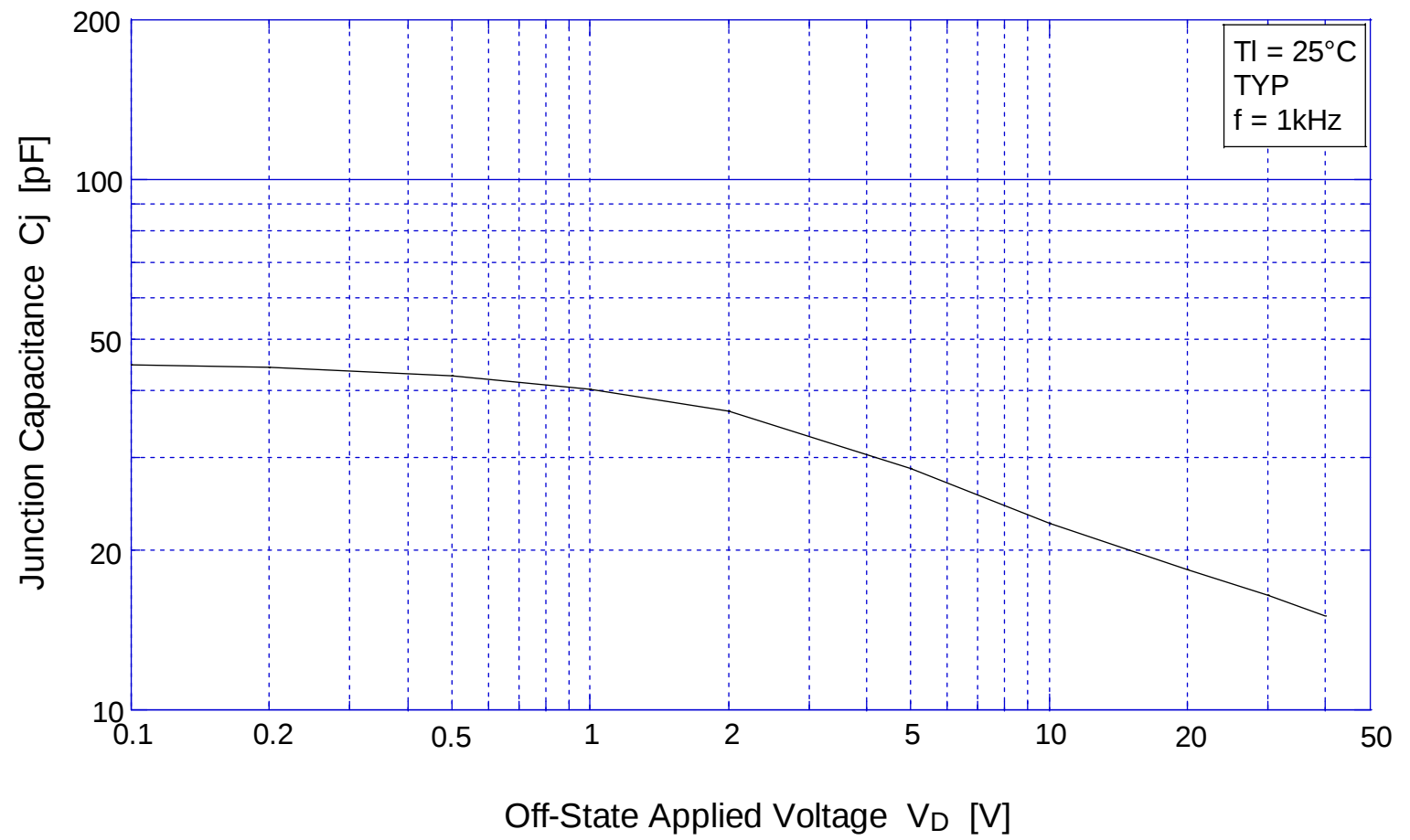
KL3R20

Junction Capacitance



KL3R20

Junction Capacitance



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