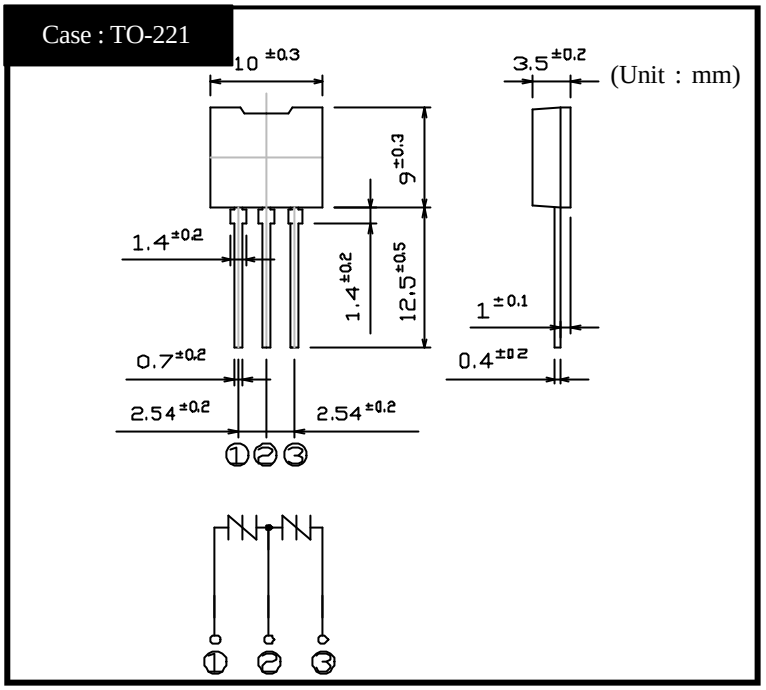
# SHINDENGEN

## TSS KT Series

# KT15N14

## OUTLINE DIMENSIONS

Case : TO-221




## RATINGS

●Absolute Maximum Ratings

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Storage Temperature | Tstg | | -40～125 | ℃ |
| Junction Temperature | Tj | | 125 | ℃ |
| Maximum Off-State Voltage | $V_{DRM}$ | | 120 | V |
| Surge On-State Current | $I_{TSM}$ | 10/1000 μs, Non-repetitive | 150 | A |
| | | 10/200 μs, Non-repetitive | 200 | |
| | | 8/20 μs, Non-repetitive | 300 | |

●Electrical Characteristics (Tl=25℃)

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Breakover Voltage | $V_{BO}$ | Pulse measurement (Peak hold) | Min 130 | V |
| Off-State Current | $I_{DRM}$ | $V_D = V_{DRM}$ | Max 10 | μA |
| Holding Current | $I_H$ | Pulse measurement | Min 100 | mA |
| On-State Voltage | $V_T$ | $I_T$ = 2A | TYP 1.45 | V |
| Junction Capacitance | Cj | f = 1kHz<br>OSC = 1V, $V_D$ = 50V | Max 200 | pF |
| Clamping Voltage | $V_{CL}$ | dv/dt = 100V/μs | Max 195 | V |

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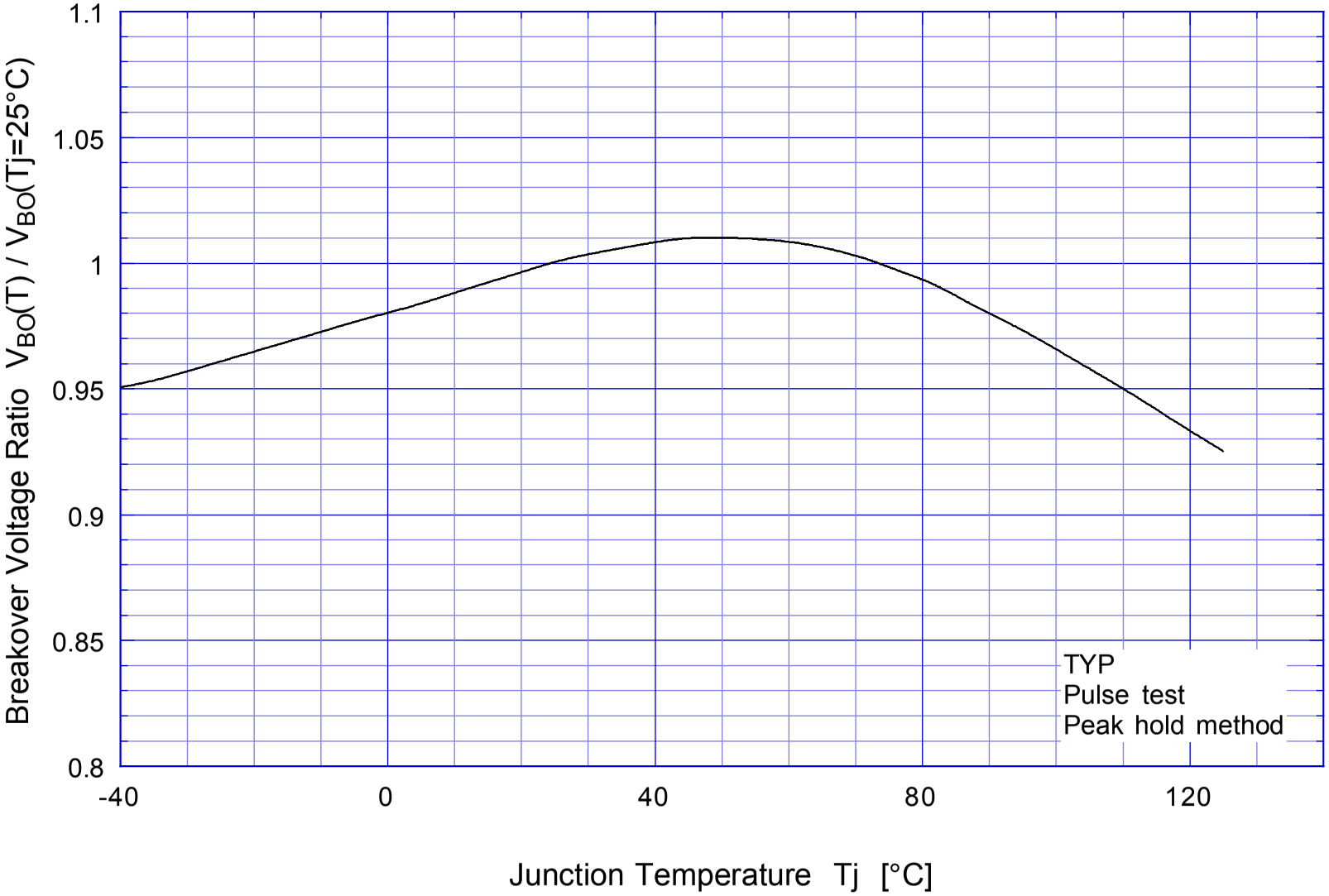
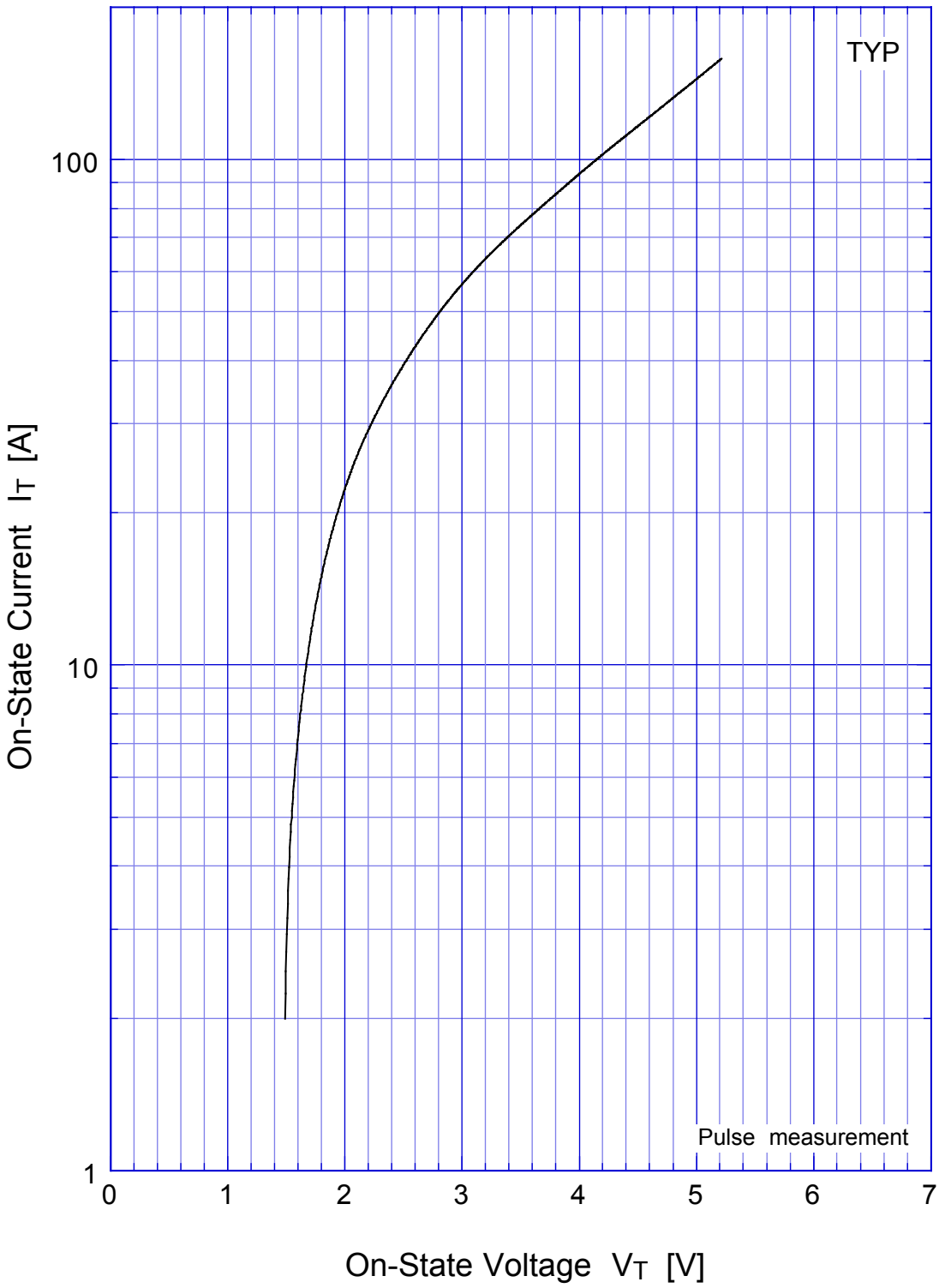
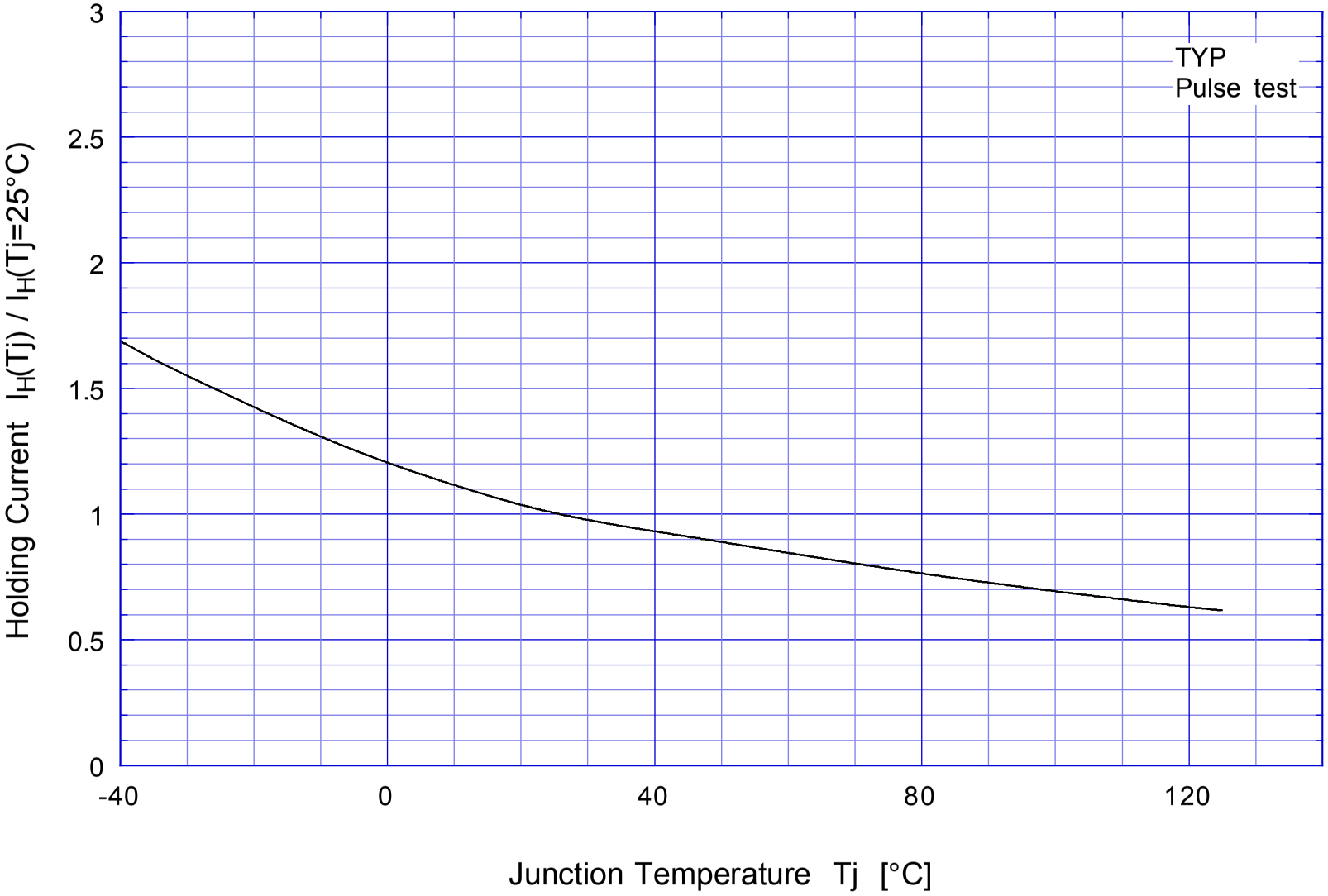
# KT15N14 Breakover Voltage - Junction Temperature

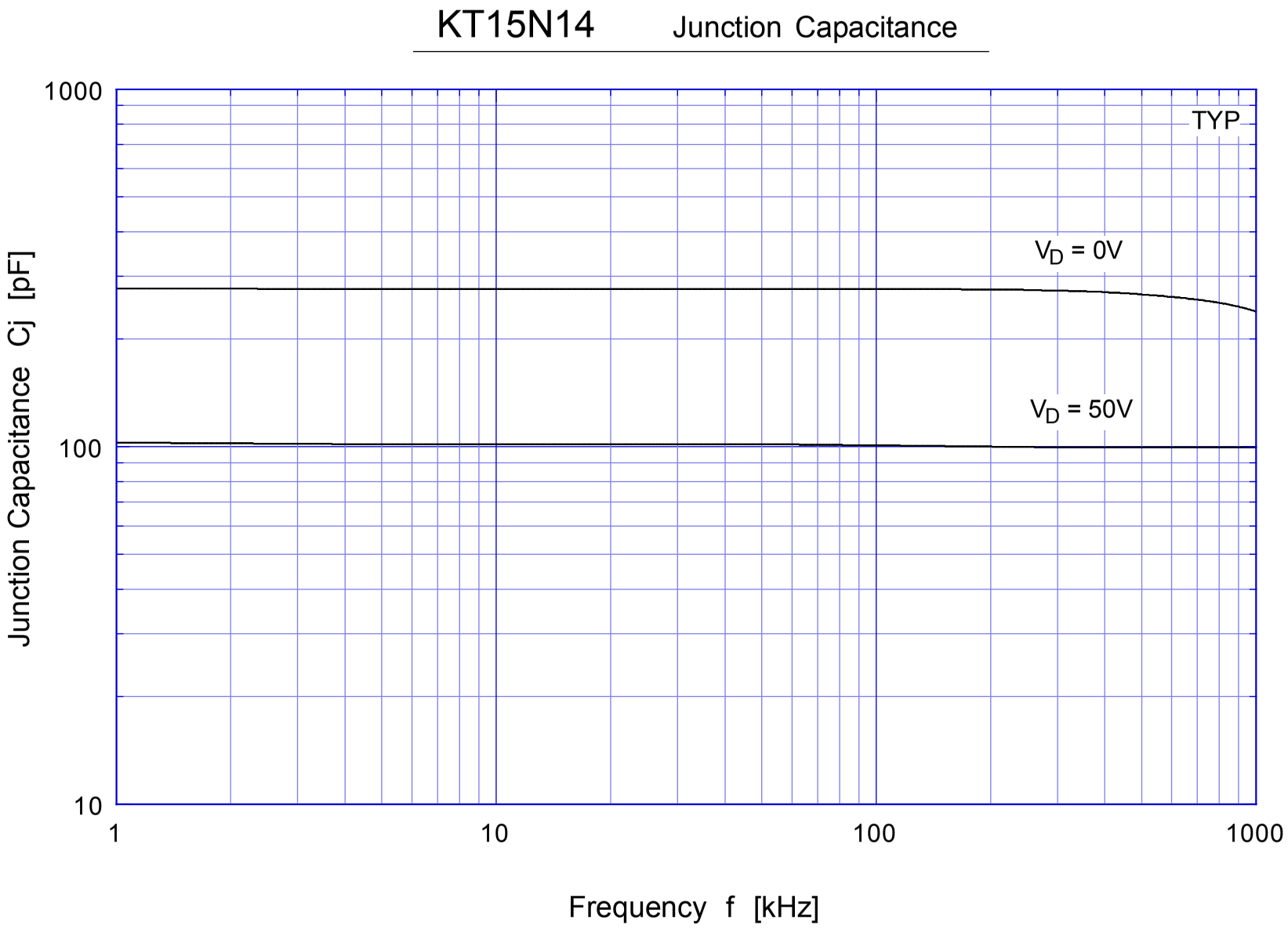


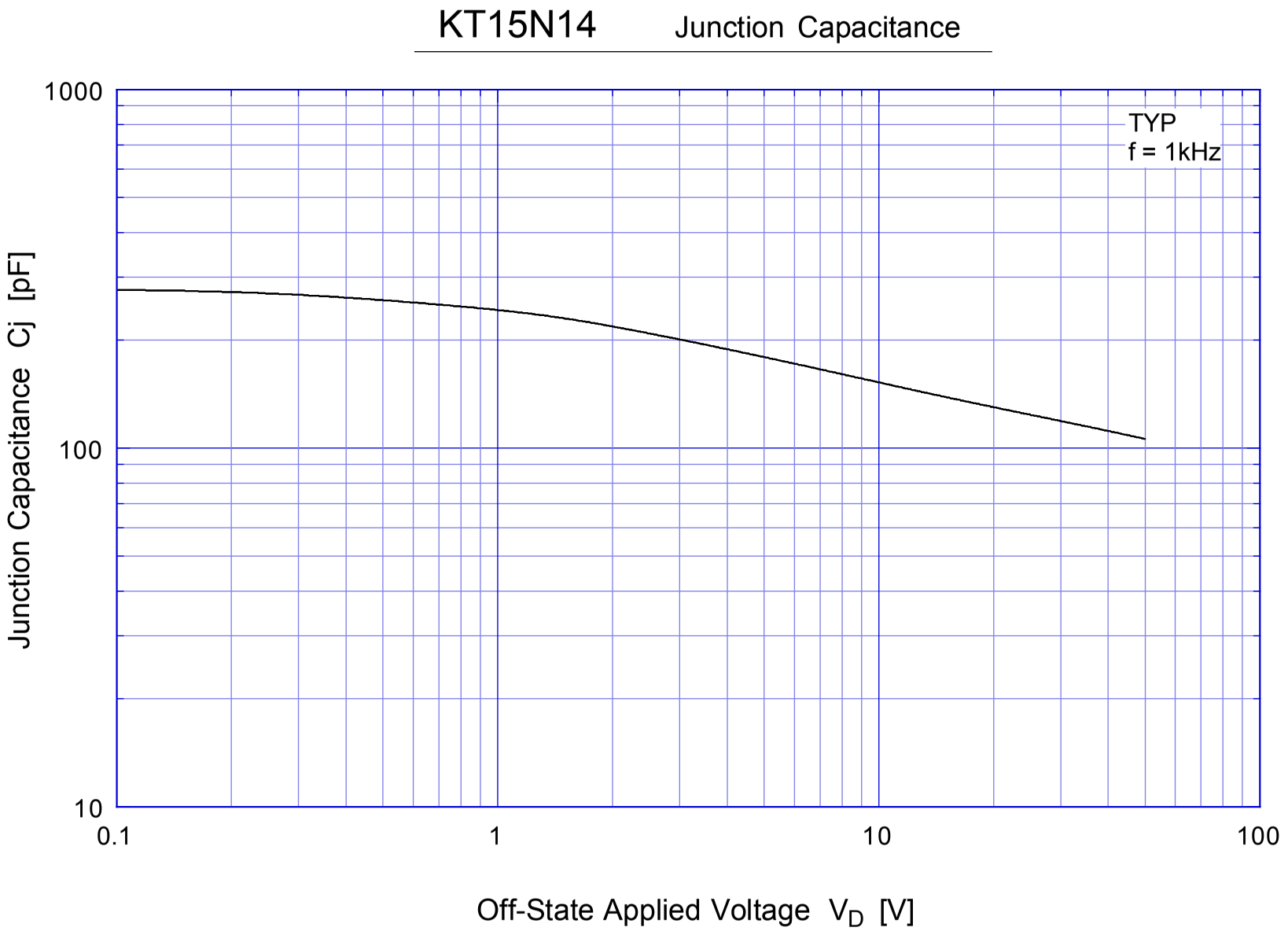
# KT15N14 On-State Voltage - On-State Current



KT15N14 Holding Current - Junction Temperature




KT15N14
Junction Capacitance
1000
100
10
1
10
100
1000
TYP
$V_D$ = 0V
$V_D$ = 50V
Junction Capacitance Cj [pF]
Frequency f [kHz]


KT15N14
Junction Capacitance
TYP
f = 1kHz
1000
100
10
0.1
1
10
100
Junction Capacitance Cj [pF]
Off-State Applied Voltage $V_D$ [V]