SHINDENGEN

TSS KL Series

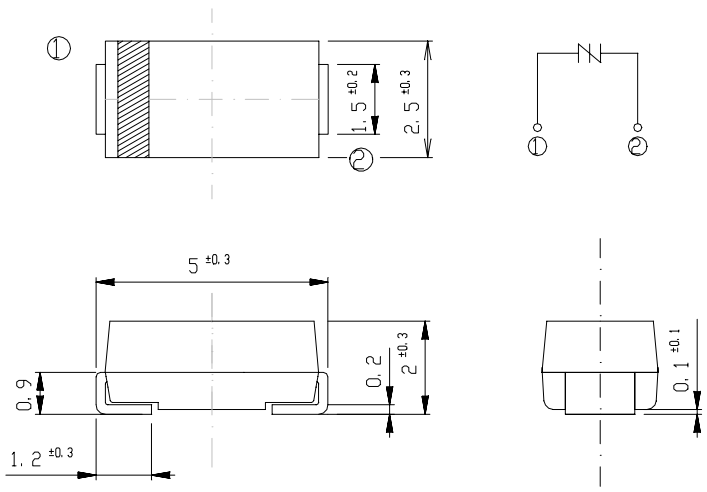
SMT

KL3N14

OUTLINE DIMENSIONS

Case : 1F

(Unit : mm)



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 μ s, Non-repetitive	30	A
		8/20 μ s, Non-repetitive	100	

●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	μ A
Holding Current	I_H	Pulse measurement	Min 100(180)	mA
On-State Voltage	V_T	I_T = 2A	TYP 1.8	V
Junction Capacitance	Cj	f = 1kHz OSC = 1V, V_D = 50V	Max 50	pF
Clamping Voltage	V_{CL}	dv/dt = 100V/ μ s	Max 195	V

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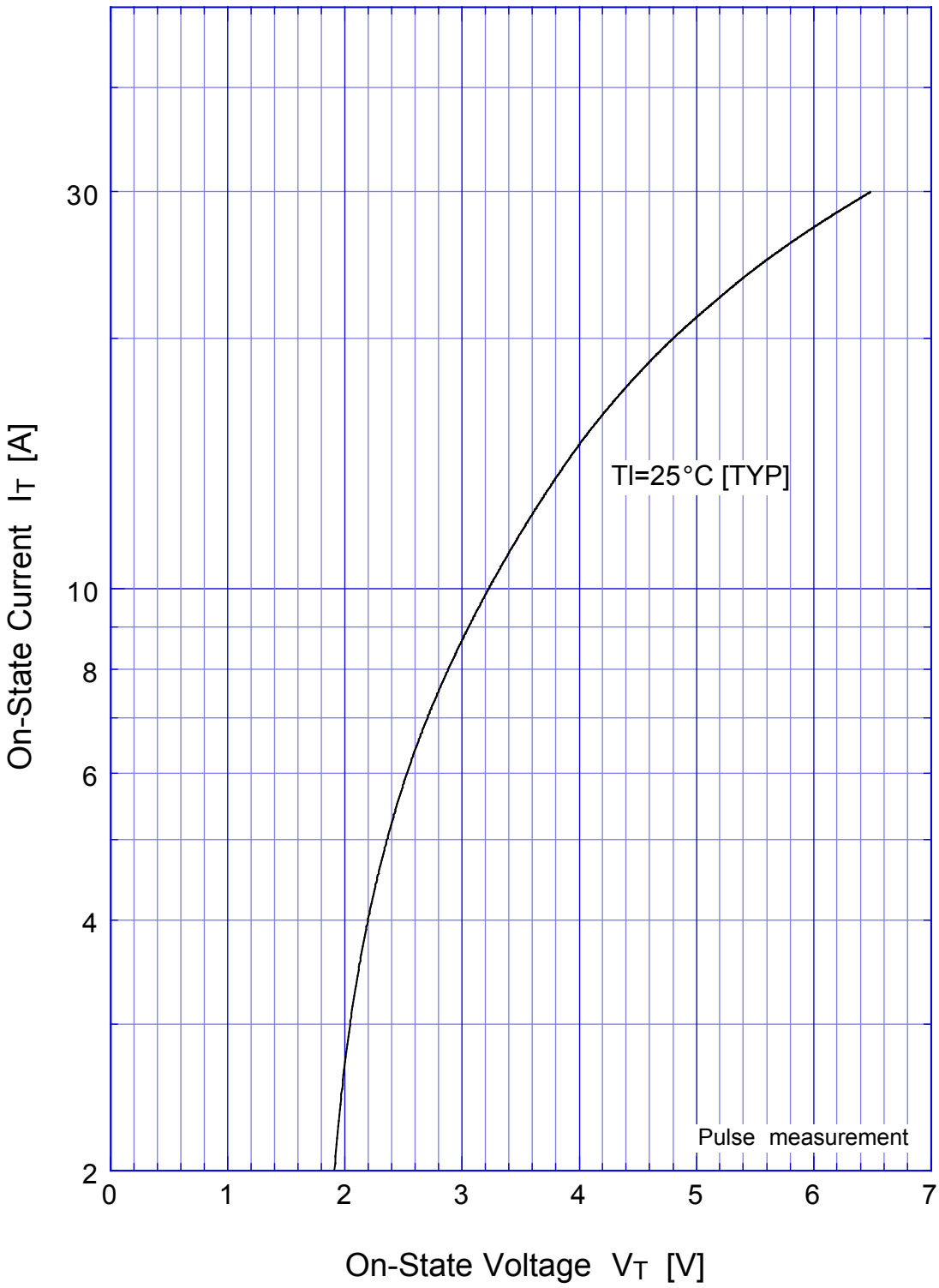
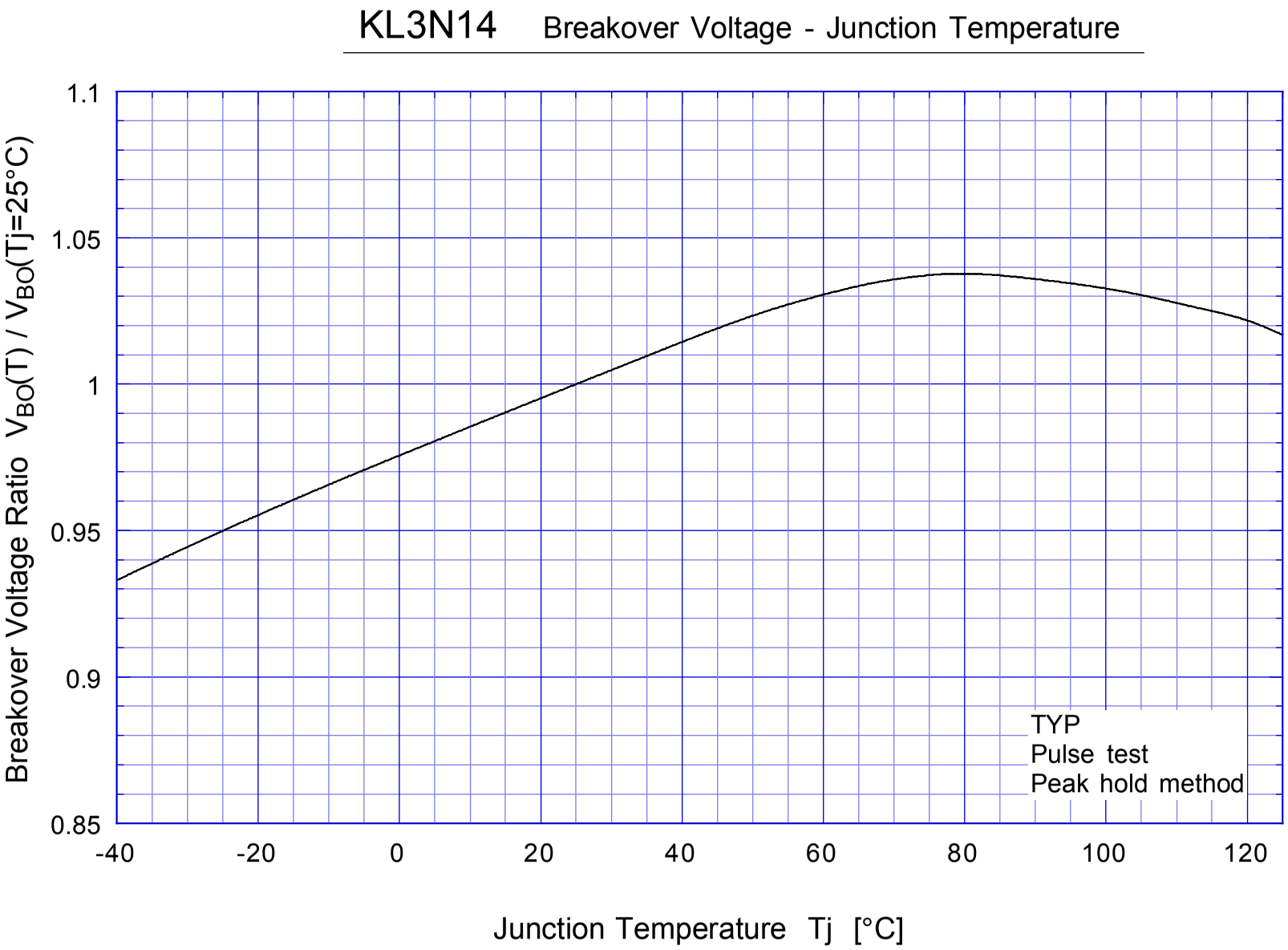
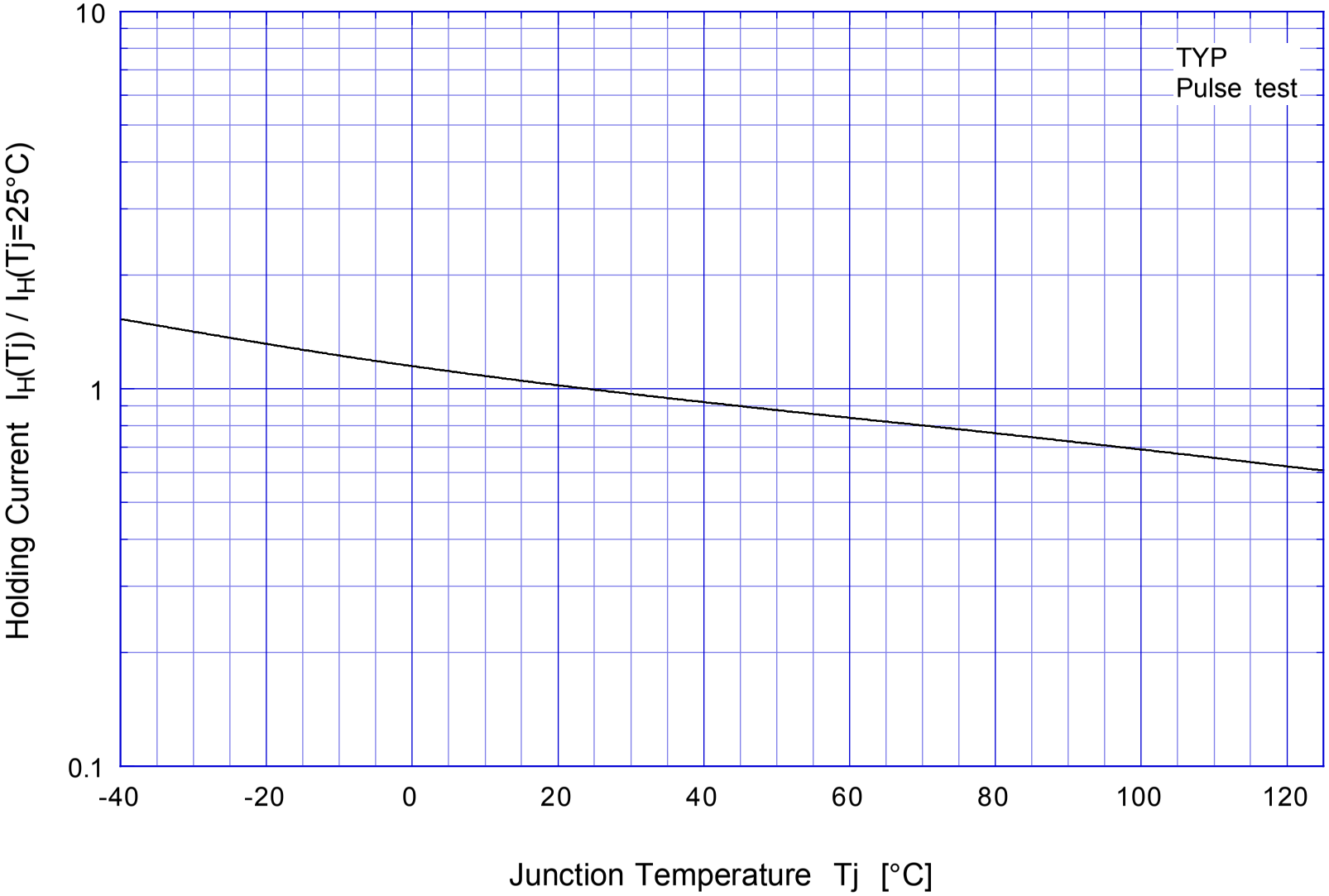
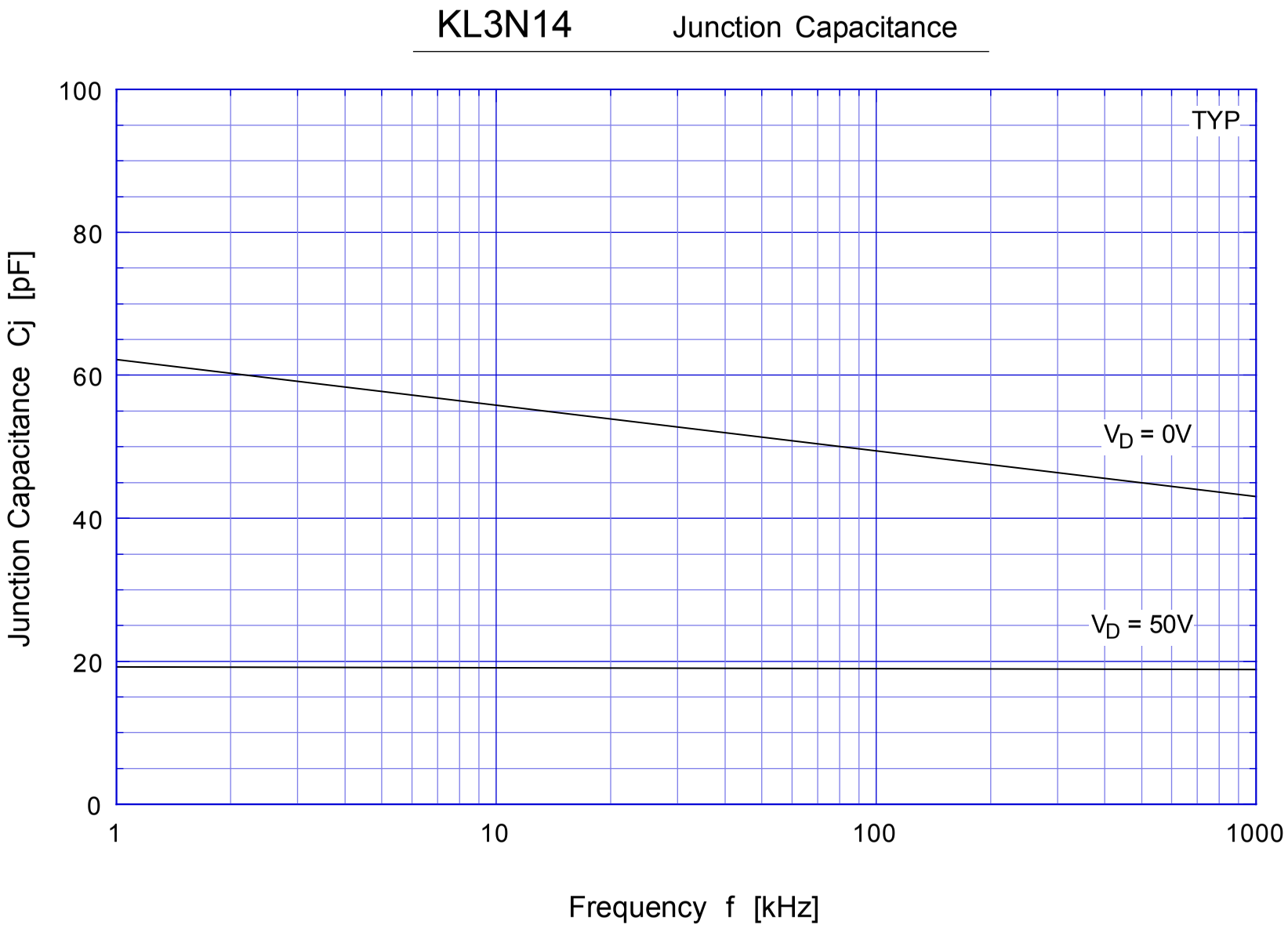
KL3N14 On-State Voltage - On-State Current

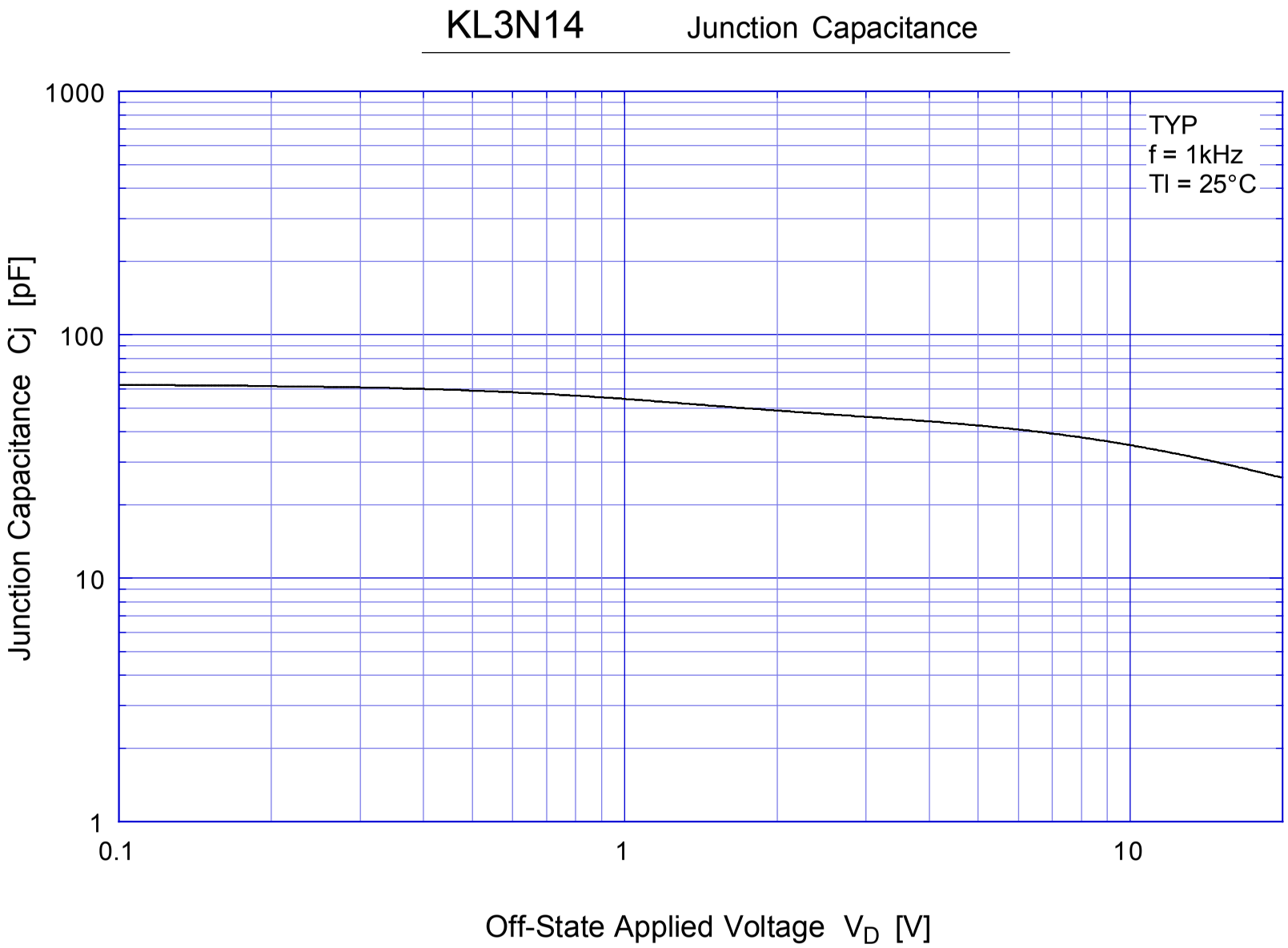



KL3N14 Breakover Voltage - Junction Temperature
Breakover Voltage Ratio $V_{BO}(T) / V_{BO}(Tj=25°C)$
1.1
1.05
1
0.95
0.9
0.85
-40
-20
0
20
40
60
80
100
120
Junction Temperature Tj [°C]
TYP
Pulse test
Peak hold method

KL3N14 Holding Current - Junction Temperature




KL3N14
Junction Capacitance
TYP
V_D = 0V
V_D = 50V
Junction Capacitance Cj [pF]
Frequency f [kHz]
100
80
60
40
20
0
1
10
100
1000


KL3N14
Junction Capacitance
1000
100
10
1
0.1
1
10
TYP
f = 1kHz
Tl = 25°C
Junction Capacitance Cj [pF]
Off-State Applied Voltage V_D [V]

Mouser Electronics

Authorized Distributor

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Shindengen:

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