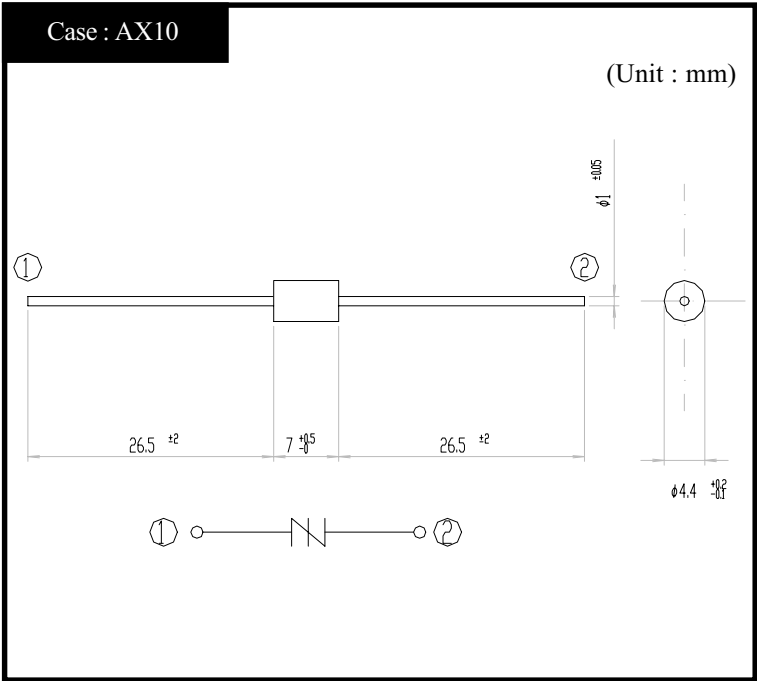


K1V38(W)

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~125	°C
Operating Junction Temperature	T _j		125	°C
Maximum Off-state Voltage	V _{DRM}		270	V
RMS On-state Current	I _T	Tl = 92°C, 50Hz sine wave ($\theta = 180^\circ$)	1	A
Surge On-state Current	I _{TSM}	Tj = 25°C, 50Hz sine wave ($\theta = 180^\circ$), non-repetitive 1-cycle peak value	13	A
Pulse On-state Current	I _{TRM}	Ta = 25 °C, pulse width t _o = 10 μ s, sine wave, repetitive peak value f = 1 kHz	15	A
		Ta = 25 °C, pulse width t _o = 10 μ s, sine wave, repetitive peak value f = 60 Hz	40	
Critical Rate of Rise of On-state Current	di _T /dt		50	A/ μ s

●Electrical Characteristics (Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Breakover Voltage	V _{BO}	I _B = 0, 50Hz sine wave	360~400	V
Off-state Current	I _{DRM}	V _D = V _{DRM}	Max 10	μ A
Breakover Current	I _{BO}		Max 0.5	mA
Holding Current	I _H		TYP 50	mA
On-state Voltage	V _T	I _T = 1A	Max 3	V
Switching Resistance	R _S		Min 0.1	k Ω
Thermal Resistance	θ j l	Junction to lead	Max 15	°C/W

●Standard Design with P.C.B.

Item	Symbol	Conditions	Standard	Unit
RMS On-state Current	I _T	Assembled in P.C.B., Ta = 25°C, soldering land 3mm ϕ	0.55	A

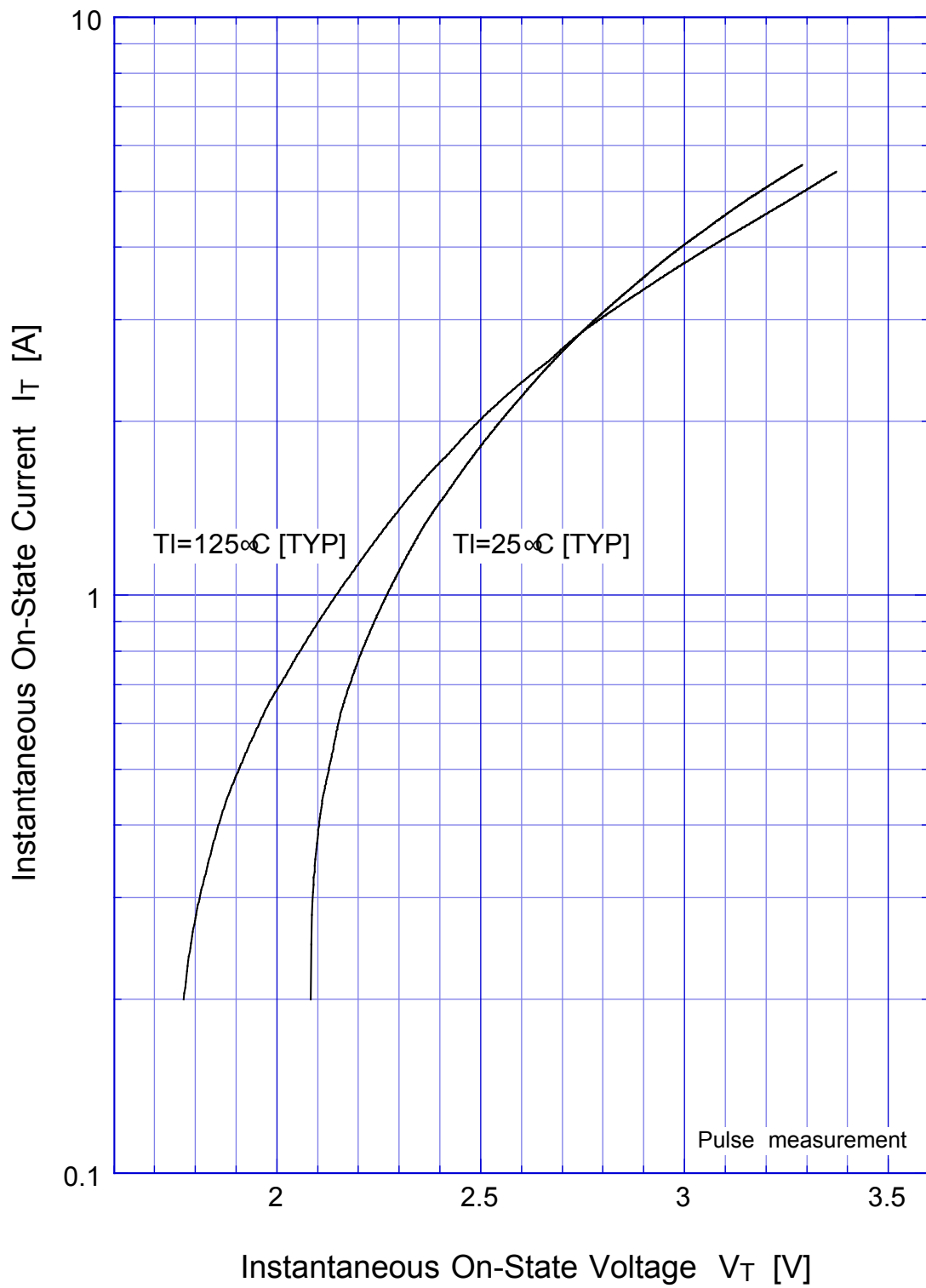
K1V33(W)

K1V34(W)

K1V36(W)

K1V38(W)

Typical On-State Voltage



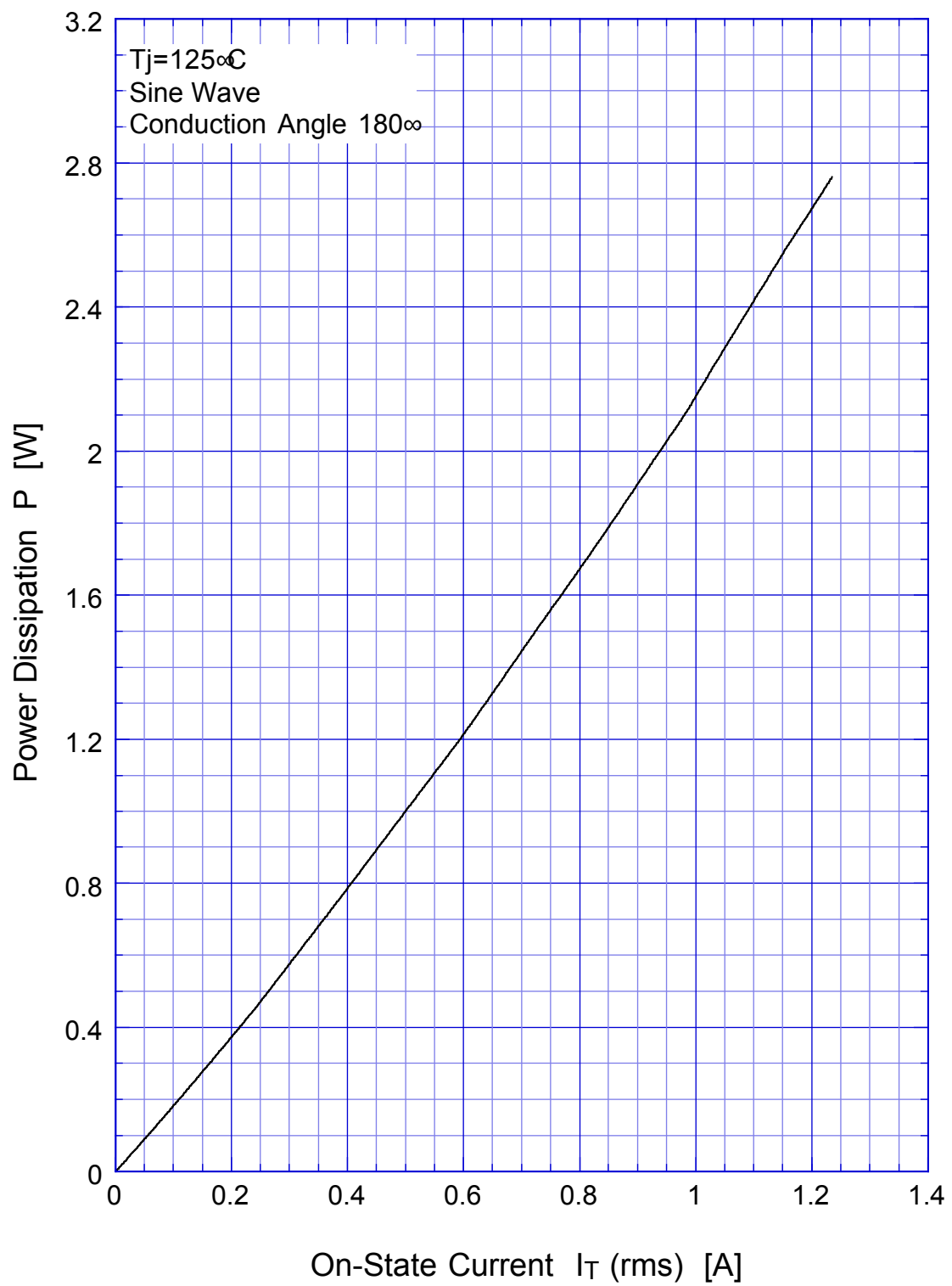
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K1V36(W)

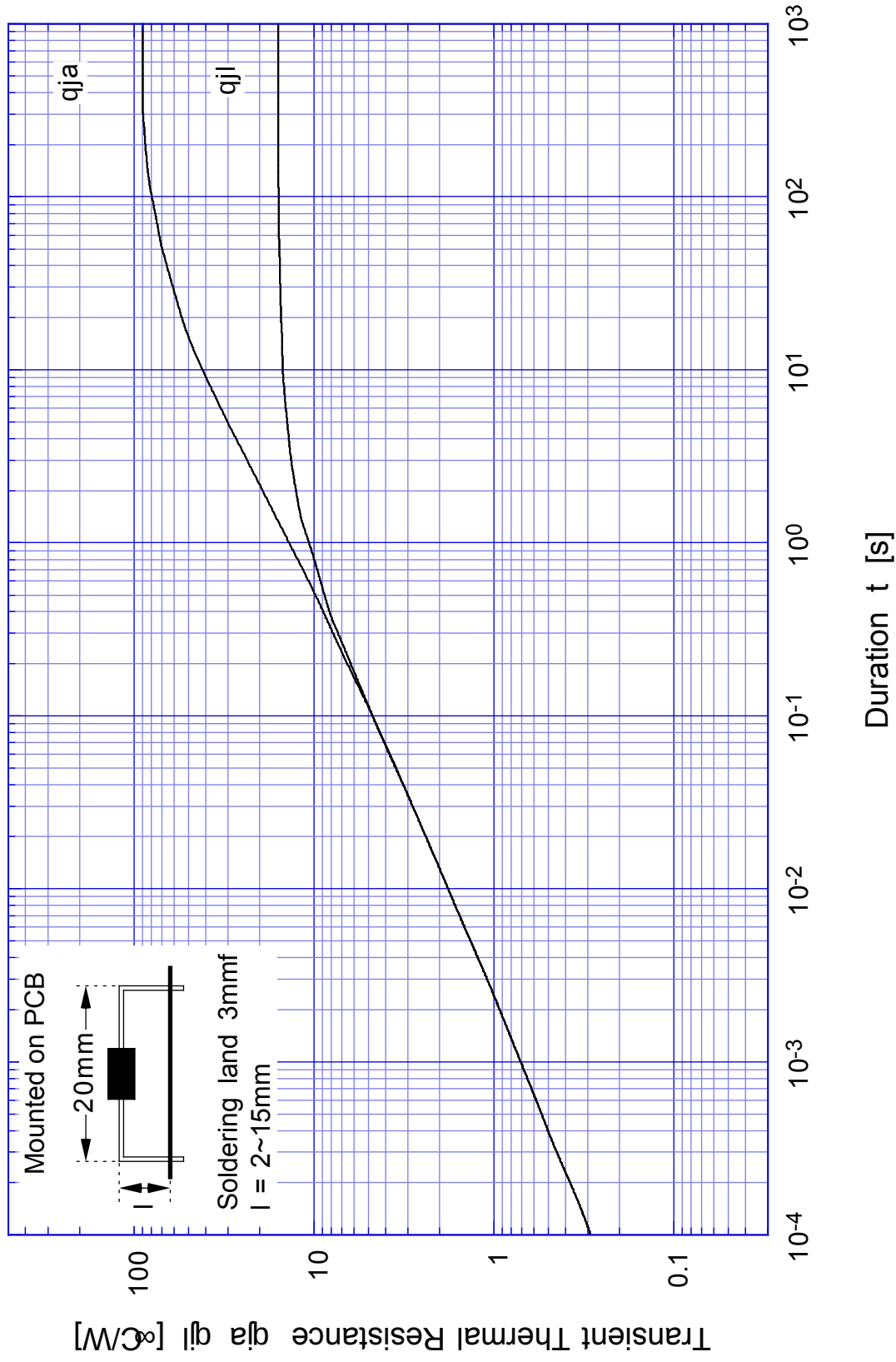
K1V38(W)

Power Dissipation



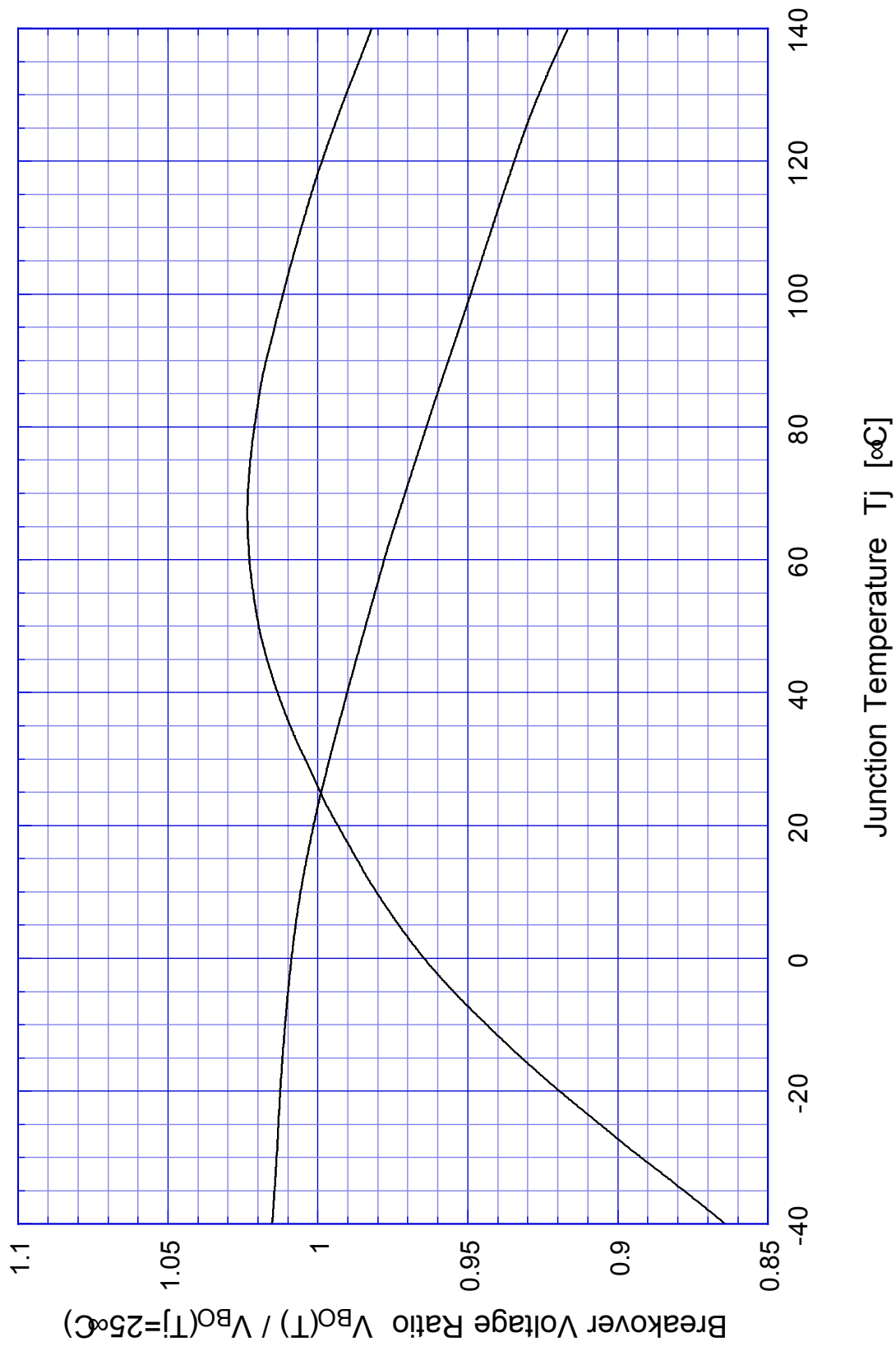
K1V33(W)
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K1V36(W)
K1V38(W)

Transient Thermal Resistance



K1V33(W)
K1V34(W)
K1V36(W)
K1V38(W)

Breakover Voltage - Junction Temperature



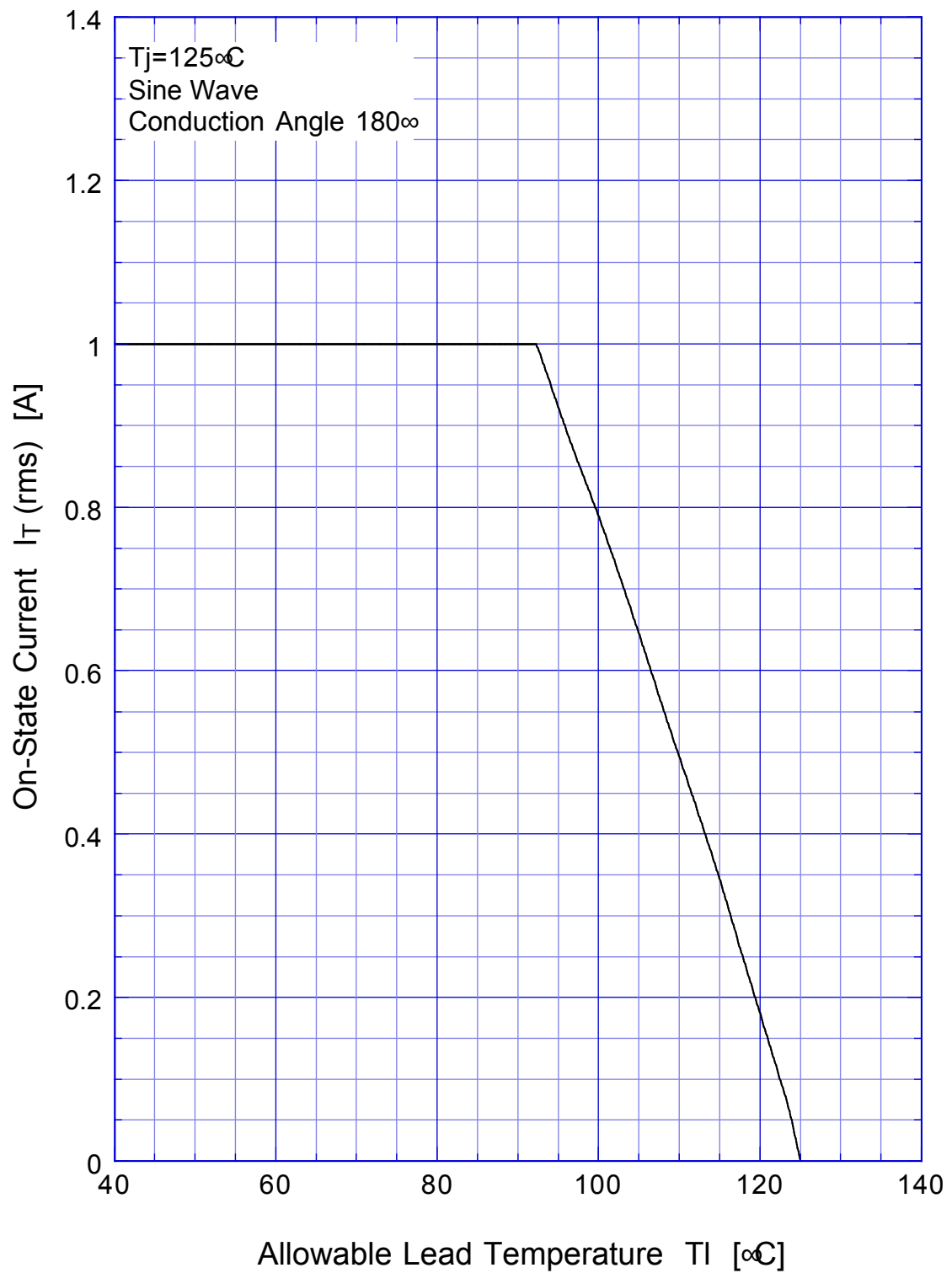
K1V33(W)

K1V34(W)

K1V36(W)

K1V38(W)

Maximum Lead Temperature

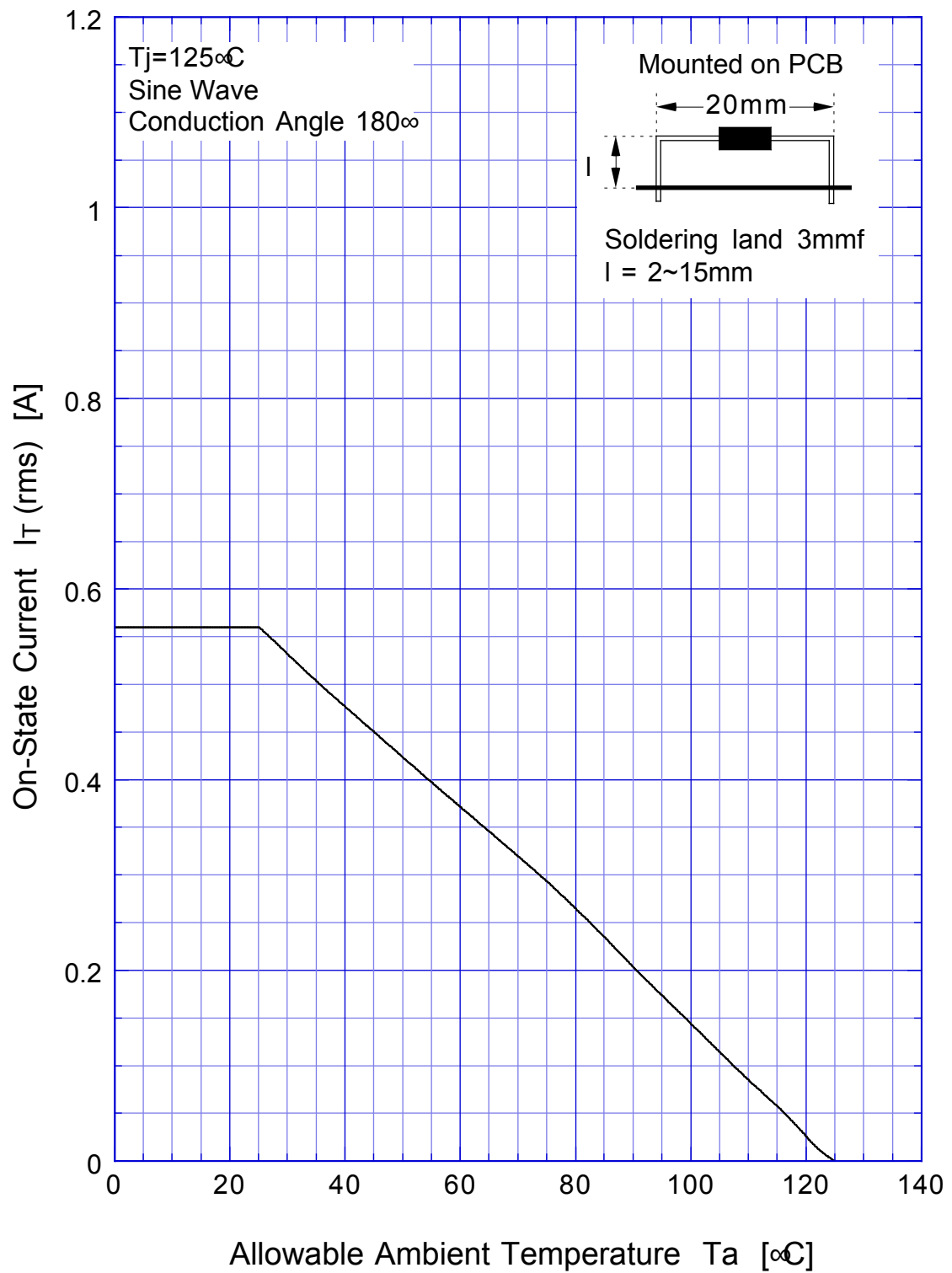


K1V33(W)

K1V34(W)

K1V36(W)

K1V38(W) Maximum Ambient Temperature



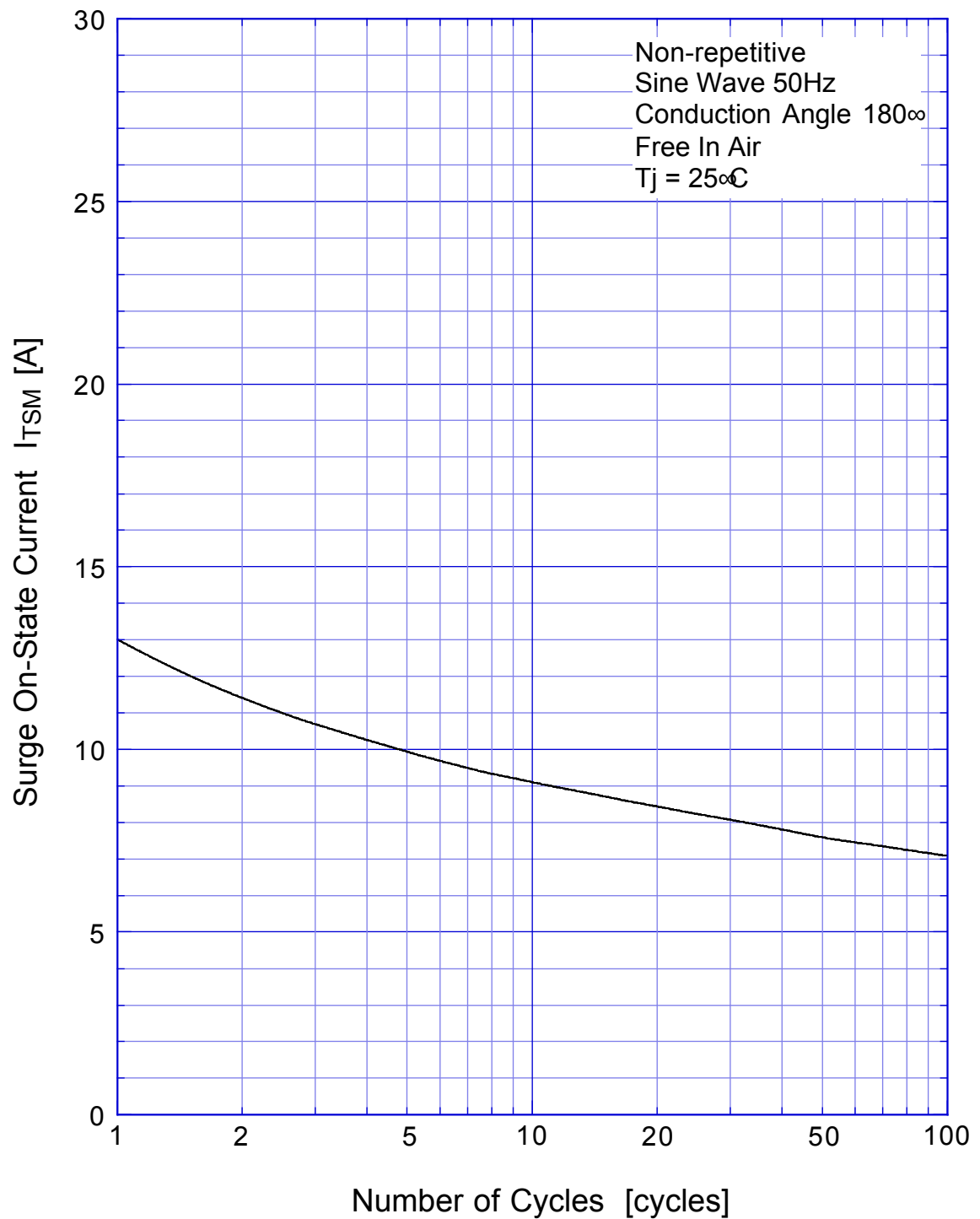
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K1V36(W)

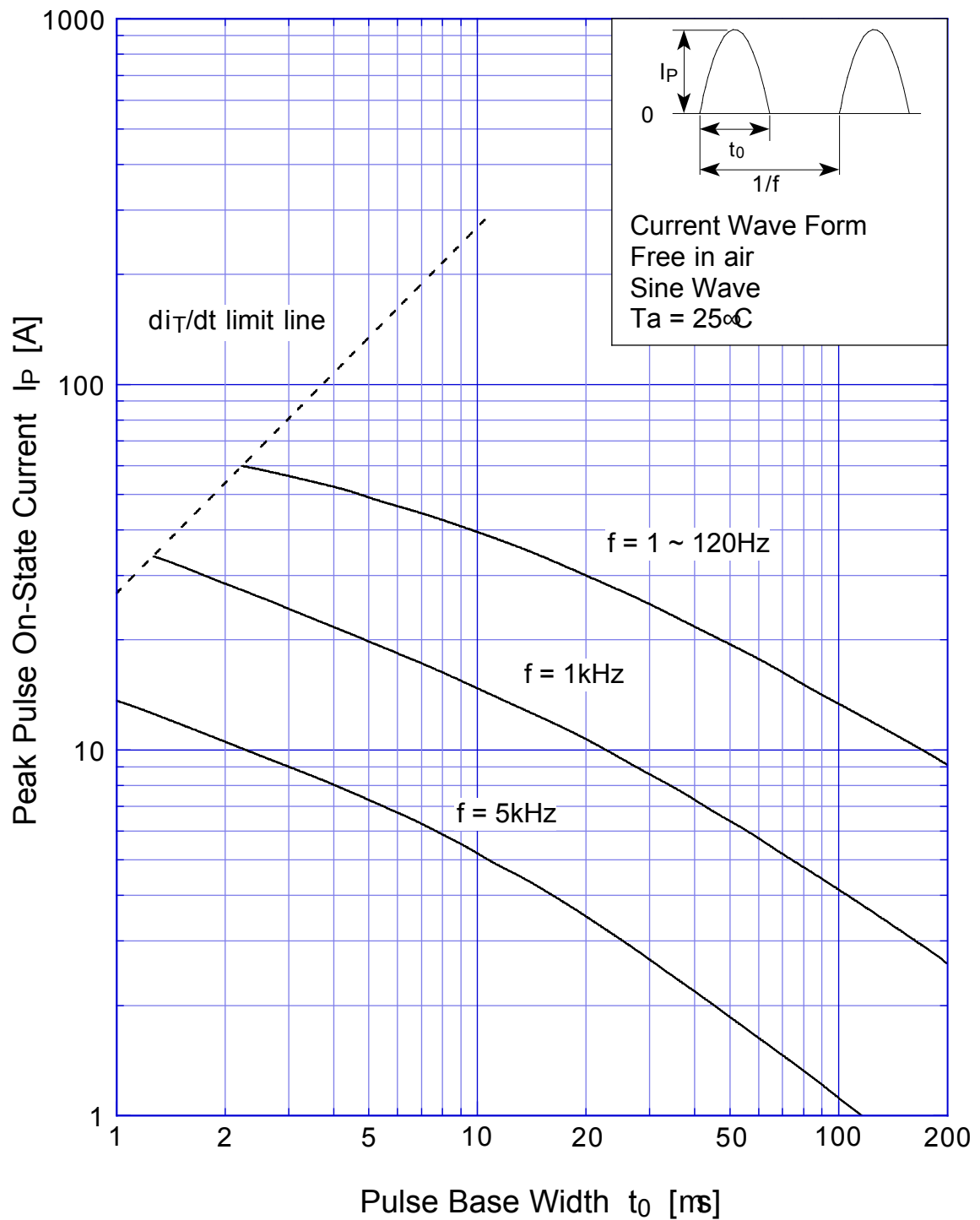
K1V38(W)

Maximum Surge On-State Current



K1V33(W)
K1V34(W)
K1V36(W)
K1V38(W)

Pulse On-State Current Rating



K1V33(W)

K1V34(W)

K1V36(W)

K1V38(W)

Pulse On-State Current Derating

