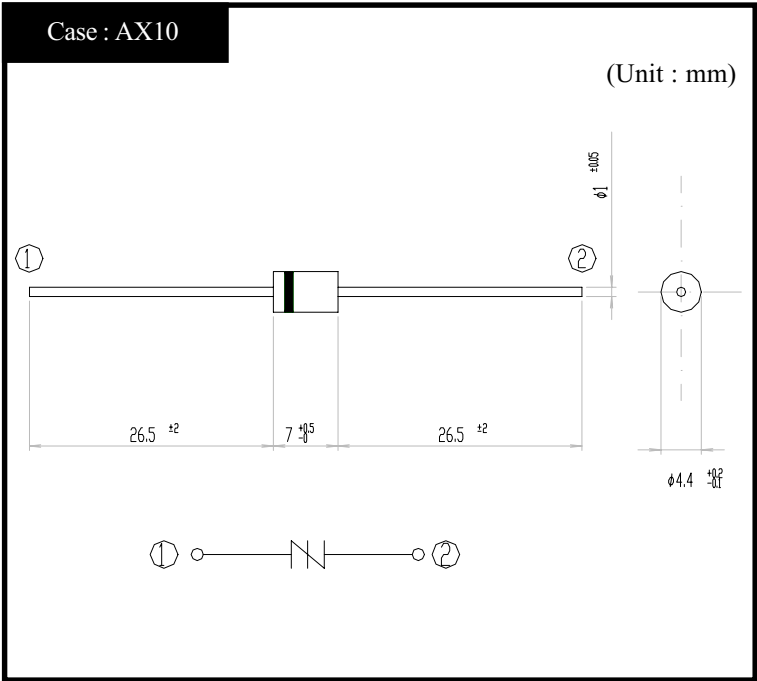


K1V18

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}		150	V
RMS On-state Current	I _T	Tl = 108°C, 50Hz sine wave (θ = 180°)	1	A
Surge On-state Current	I _{TSM}	Tj = 25°C, 50Hz sine wave (θ = 180°), non-repetitive 1-cycle peak value	20	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	25	A
		Ta = 25 °C, pulse width t _o = 10 μ s, sine wave, repetitive peak value f = 60 Hz	80	
Critical Rate of Rise of On-state Current	di _T /dt		80	A/ μ s

●Electrical Characteristics (Tl=25°C)

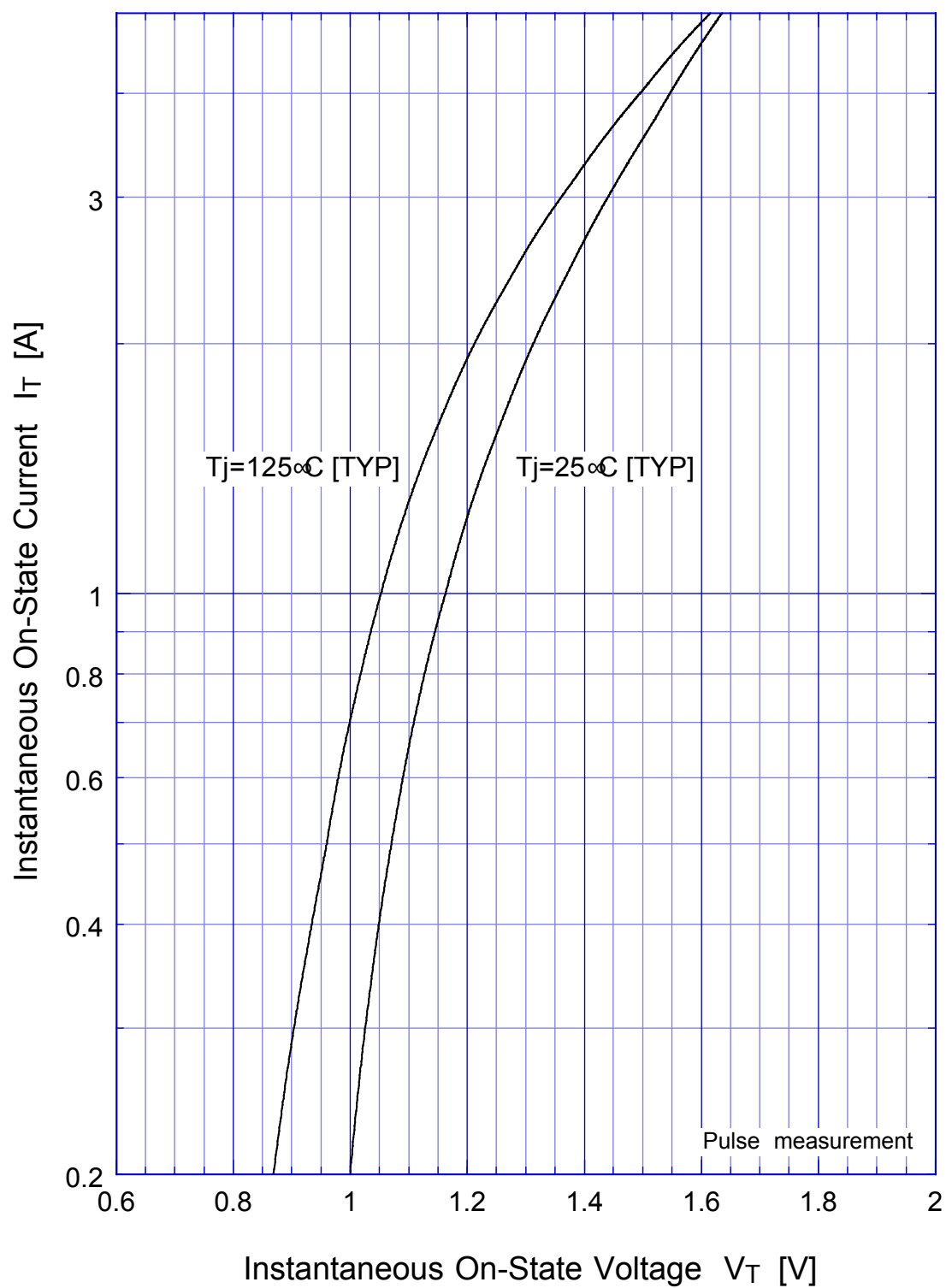
Item	Symbol	Conditions	Ratings	Unit
Breakover Voltage	V _{BO}	I _B = 0, 50Hz sine wave	165~200	V
Off-state Current	I _{DRM}	V _D = V _{DRM}	Max 10	μ A
Breakover Current	I _{BO}		Max 0.5	mA
Holding Current	I _H		TYP 50	mA
On-state Voltage	V _T	I _T = 1A	Max 1.5	V
Switching Resistance	R _S		Min 0.1	k Ω
Thermal Resistance	θ _{jl}	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	1	A

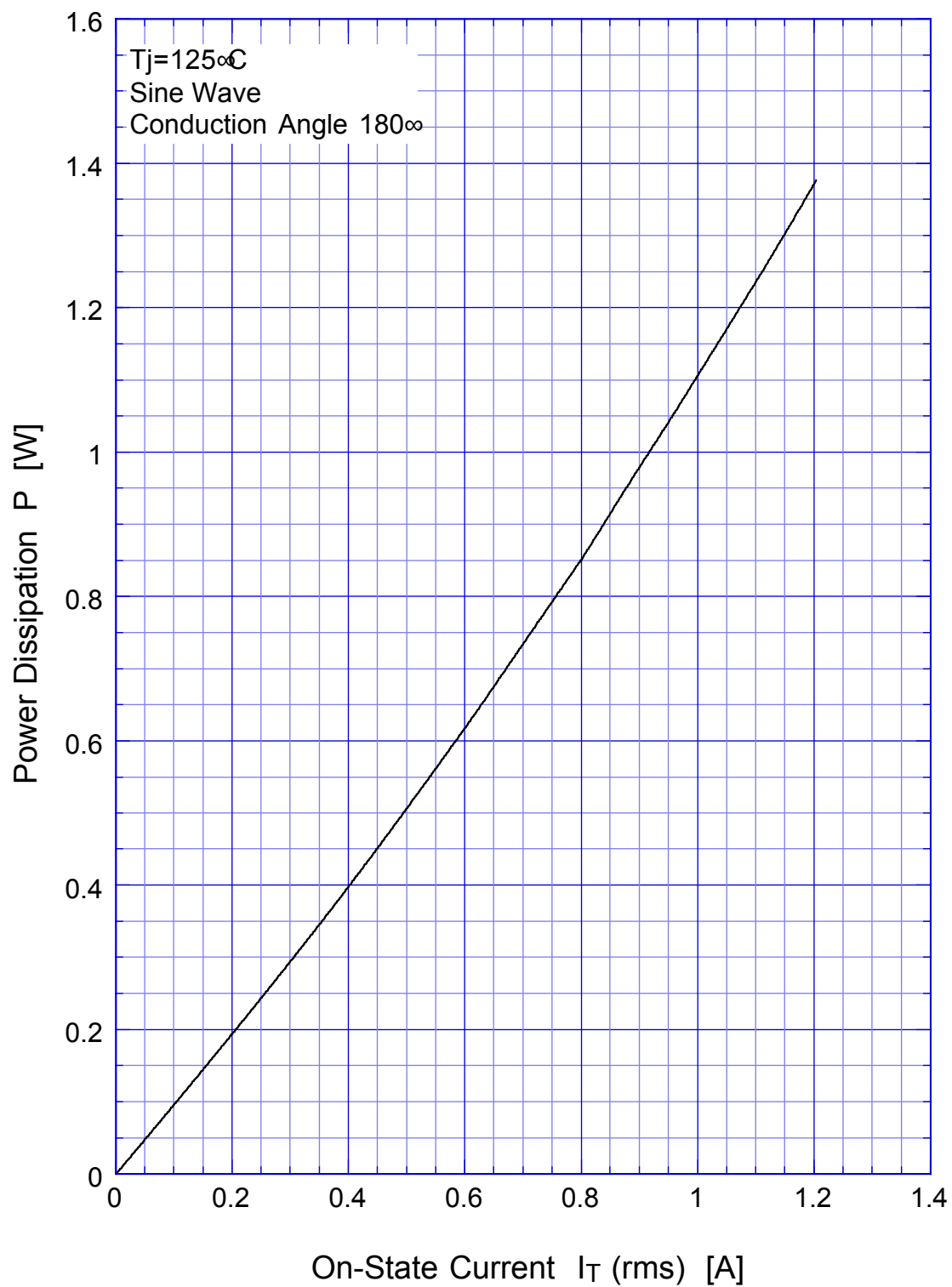
K1V18

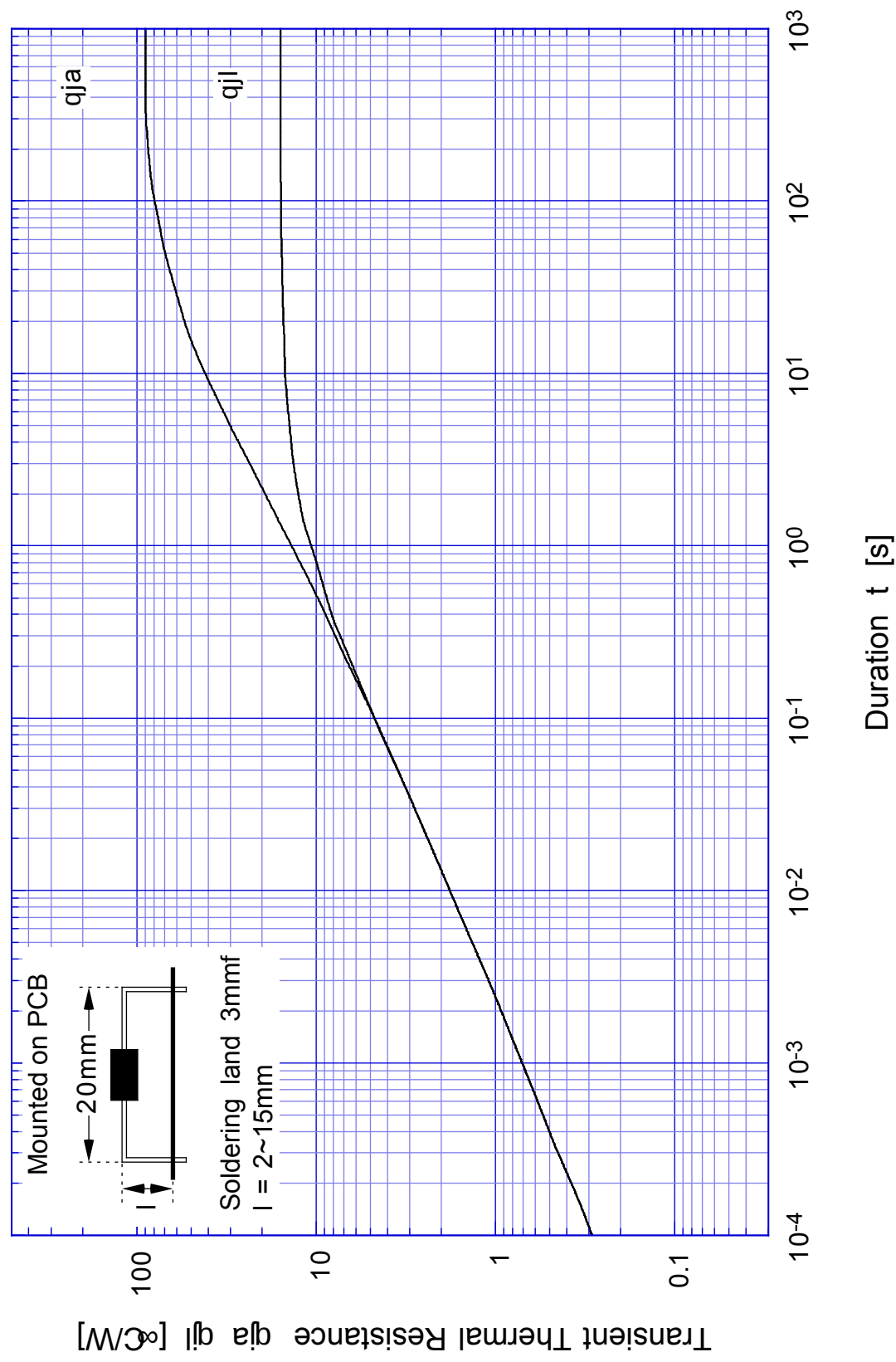
Typical On-State Voltage



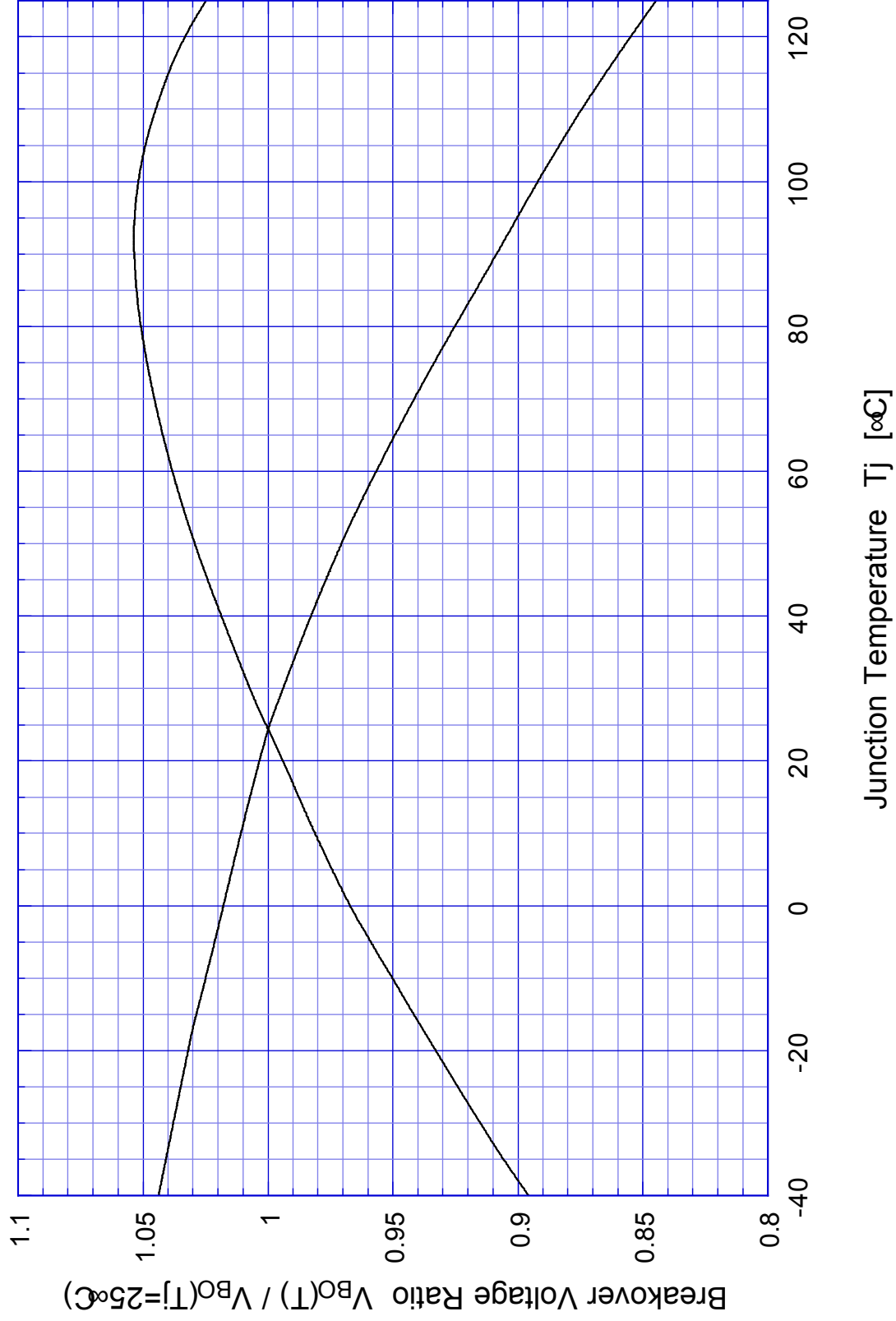
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Power Dissipation



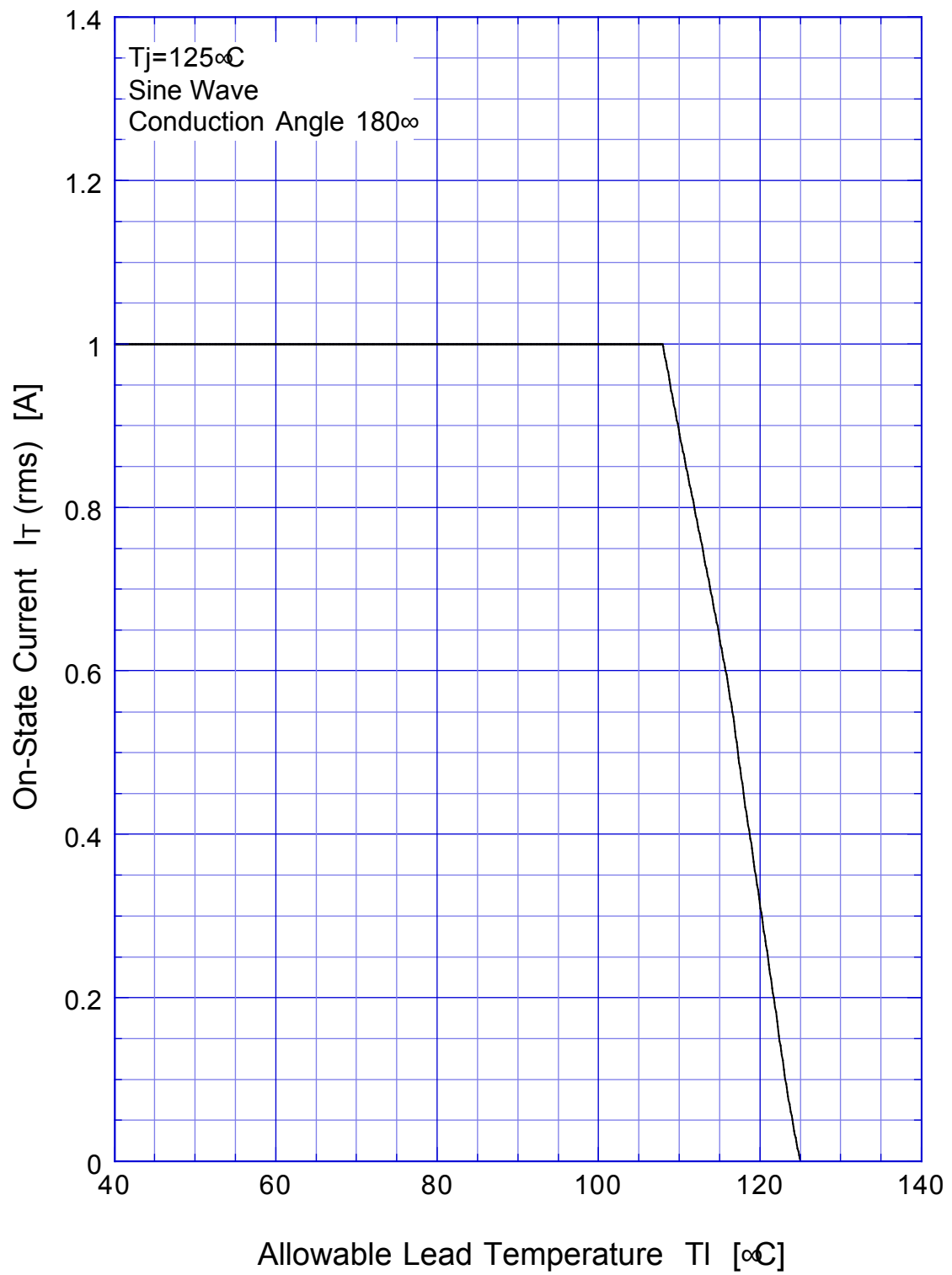


K1V18 Breakover Voltage - Junction Temperature



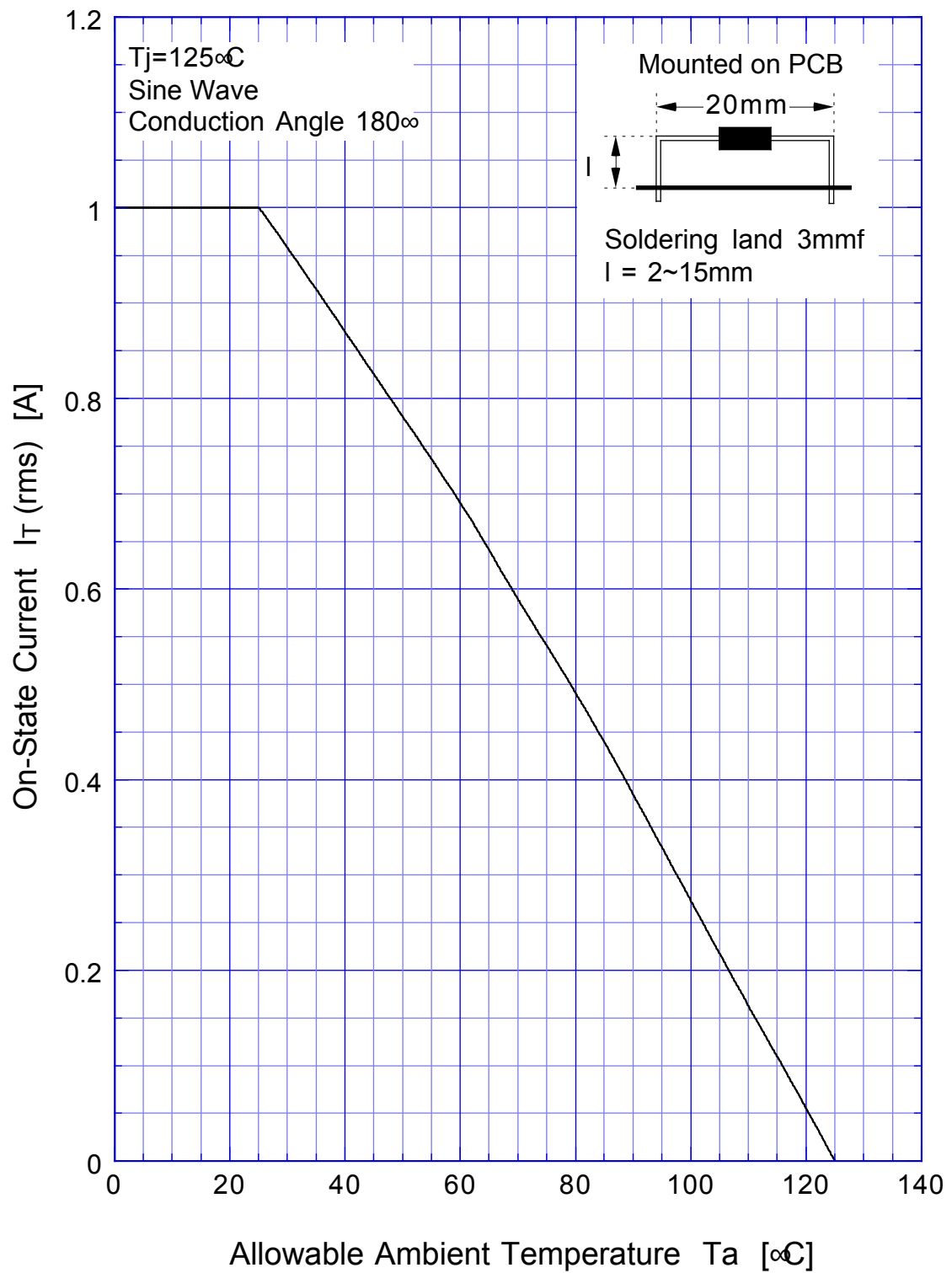
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Maximum Lead Temperature



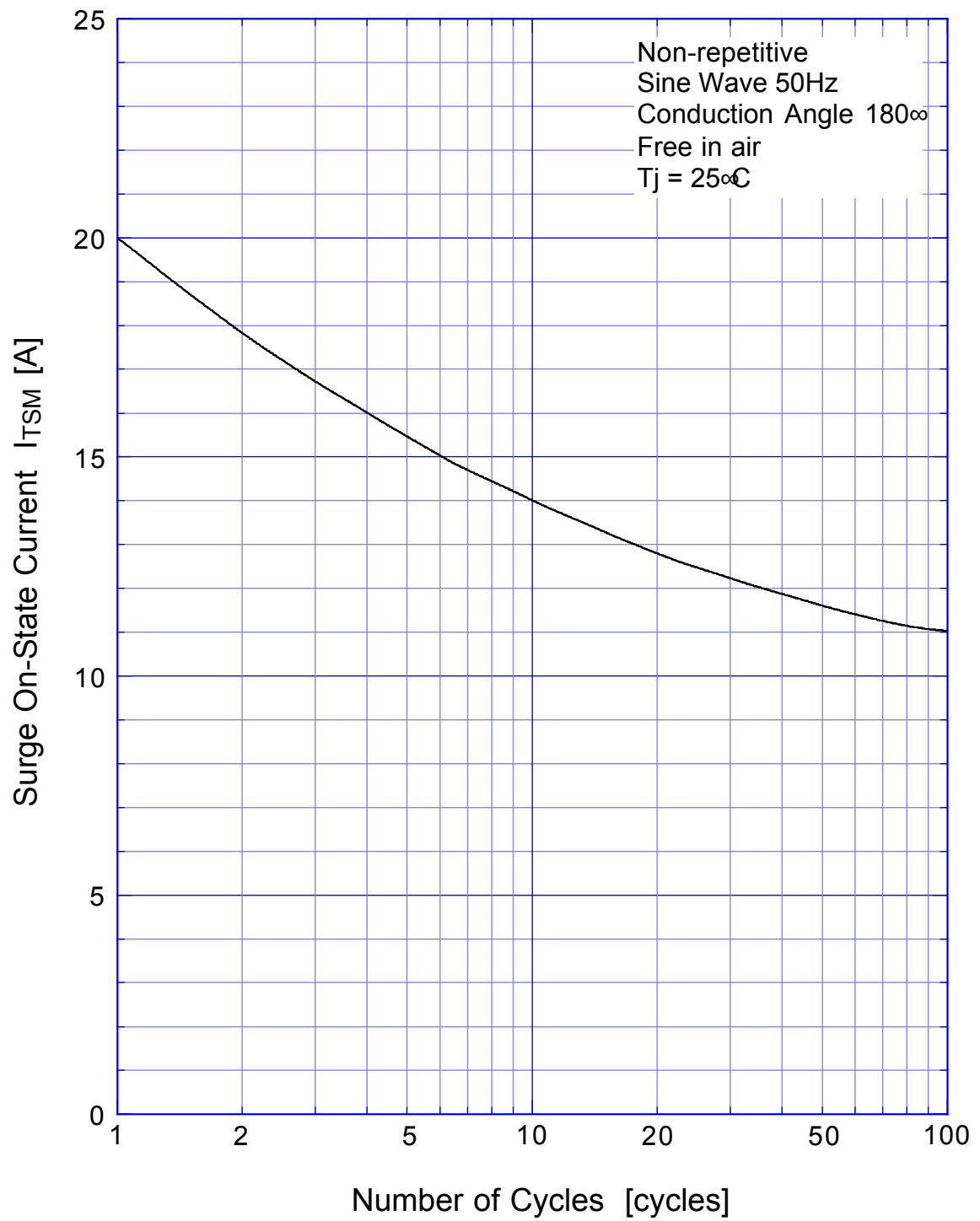
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Maximum Ambient Temperature



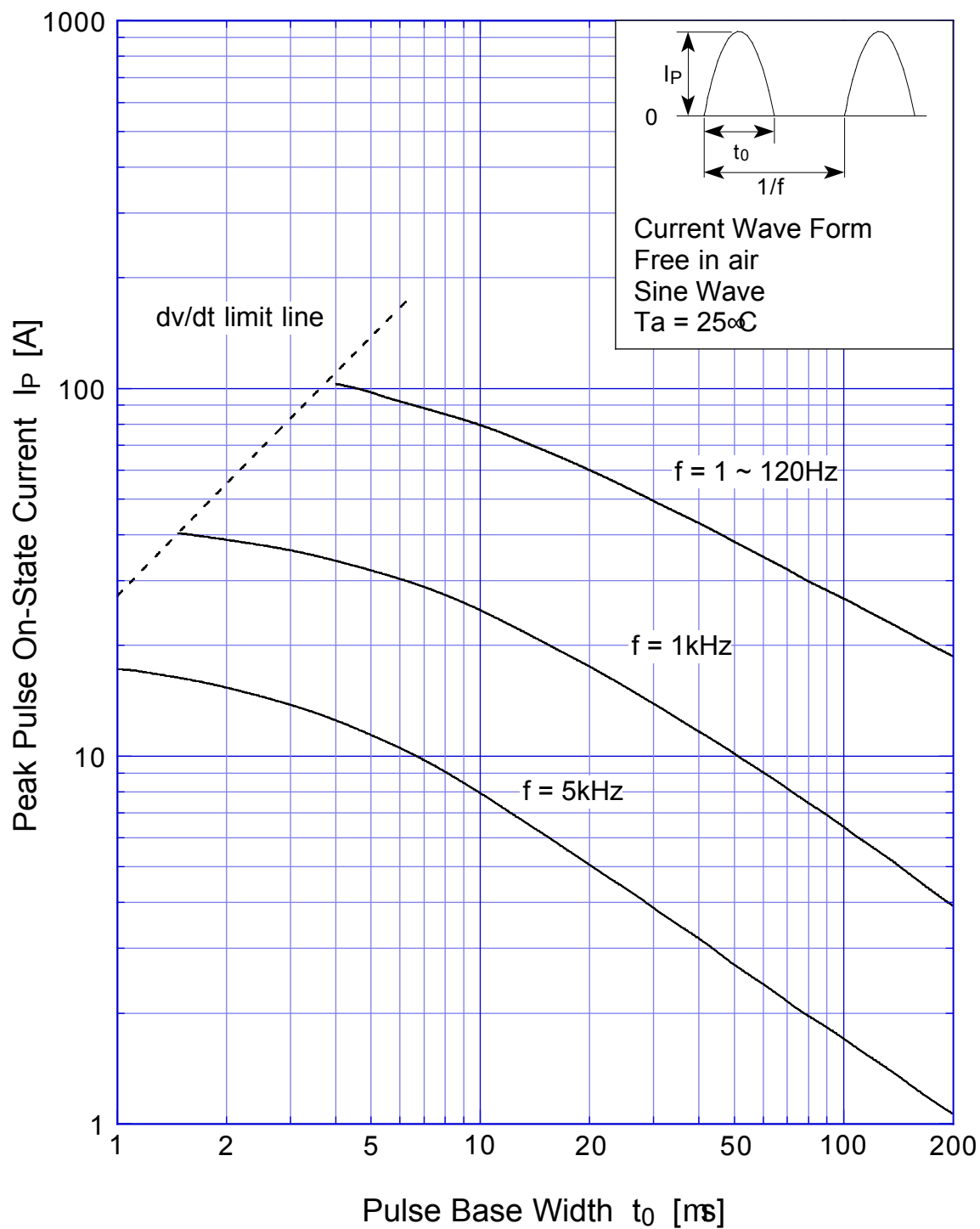
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Maximum Surge On-State Current



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Pulse On-State Current Rating



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Pulse On-State Current Derating

