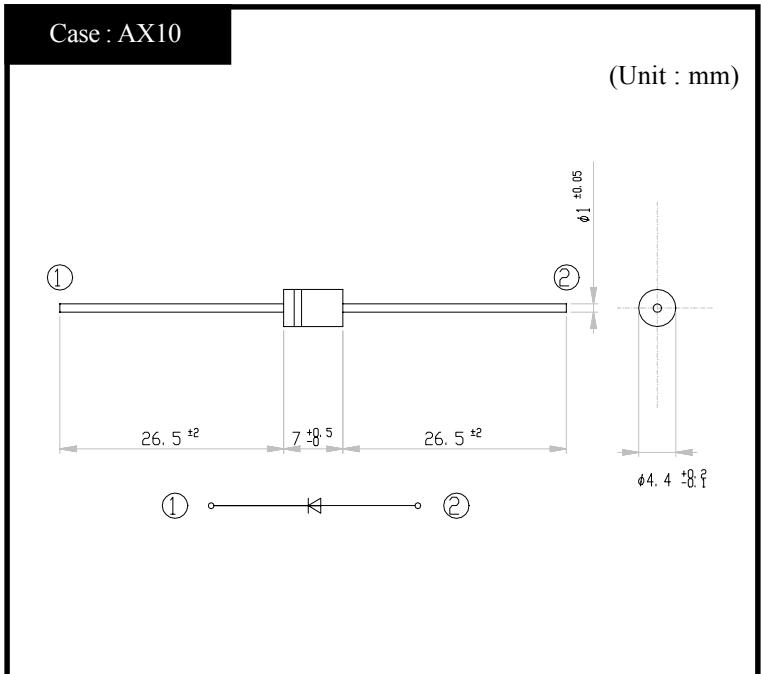


SHINDENGEN

Sidac

K1V34(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	T _I = 92°C, 50Hz sine wave (θ = 180°)	1	A
Surge On-state Current	I _{TSM}	T _J = 25°C, 50Hz sine wave (θ = 180°), non-repetitive 1-cycle peak value	13	A
		T _a = 25 °C, pulse width t _o = 10 μ s, sine wave,	15	
Pulse On-state Current	I _{TRM}	repetitive peak value f = 1 kHz		A
		T _a = 25 °C, pulse width t _o = 10 μ s, sine wave,	40	
		repetitive peak value f = 60 Hz		
Critical Rate of Rise of On-state Current	di _T /dt		50	A/μ s

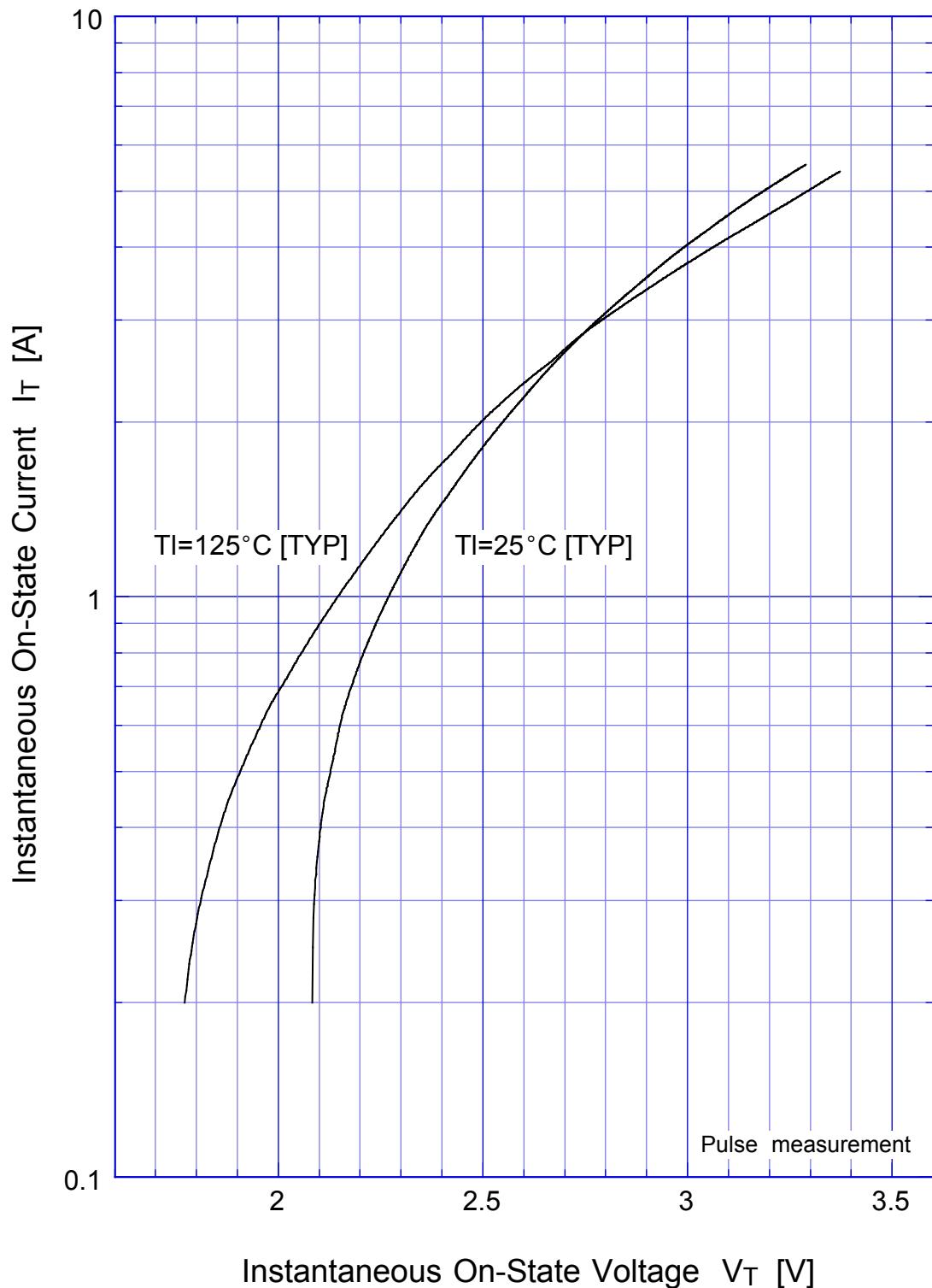
● Electrical Characteristics (T_I=25°C)

Item	Symbol	Conditions	Ratings	Unit
Breakover Voltage	V _{BO}	I _B = 0, 50Hz sine wave	320~360	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 3.0	V
Switching Resistance	R _S		Min 0.1	kΩ
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., T _a = 25°C, soldering land 3mm φ	0.55	A

K1V33(W)
K1V34(W)
K1V36(W)
K1V38(W) Typical On-State Voltage



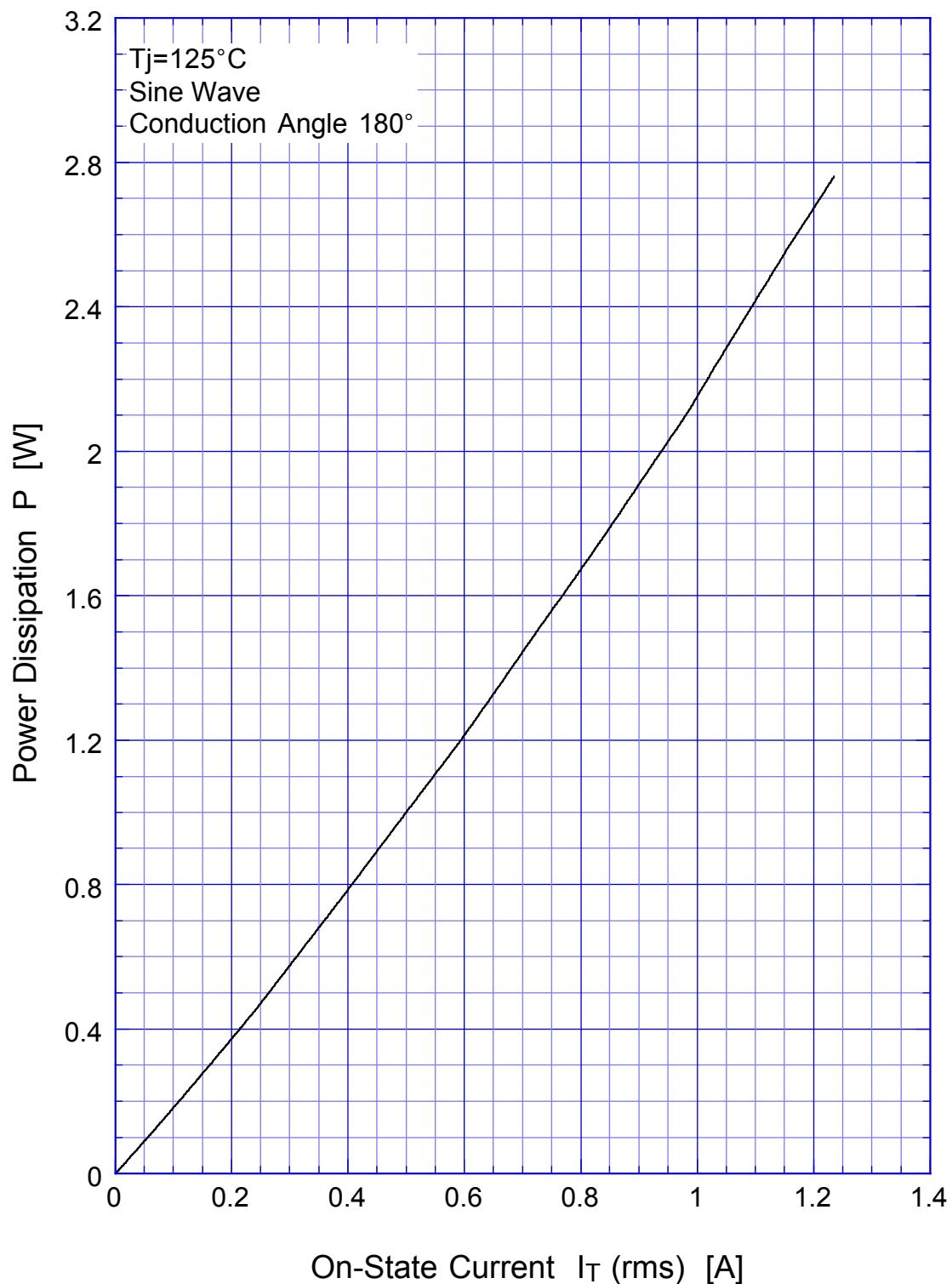
K1V33(W)

K1V34(W)

K1V36(W)

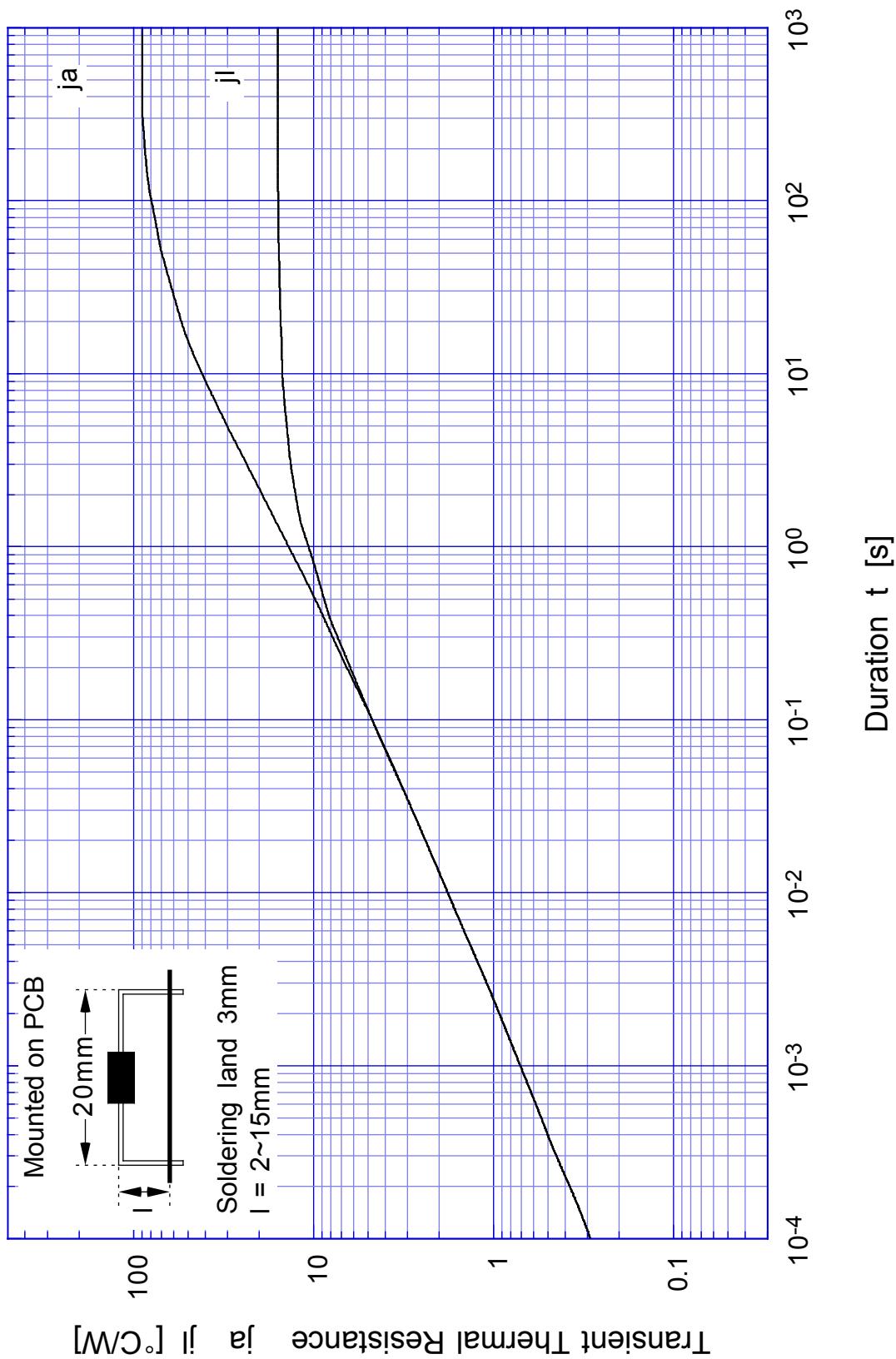
K1V38(W)

Power Dissipation



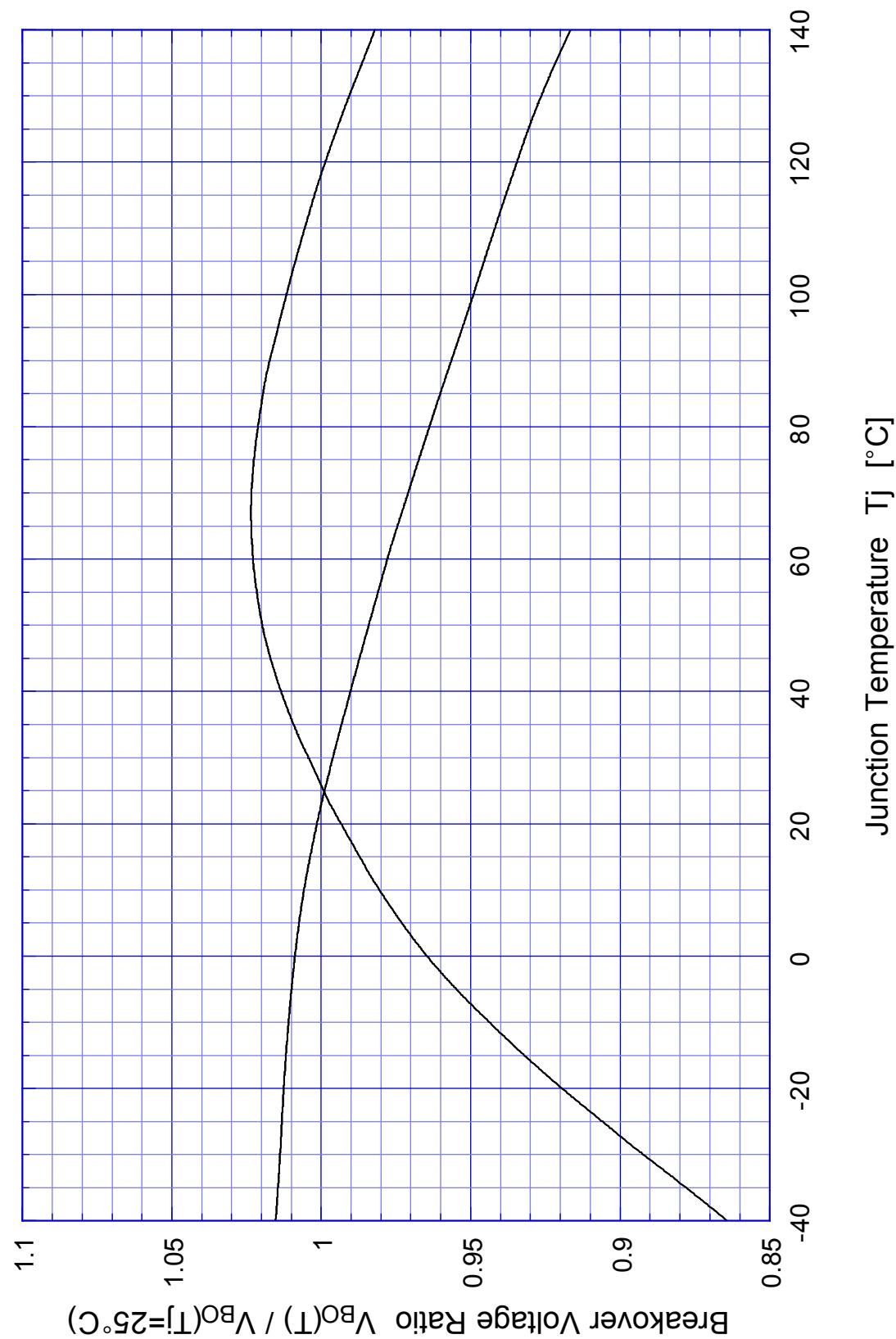
K1V33(W)
K1V34(W)
K1V36(W)
K1V38(W)

Transient Thermal Resistance



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

Breakover Voltage - Junction Temperature

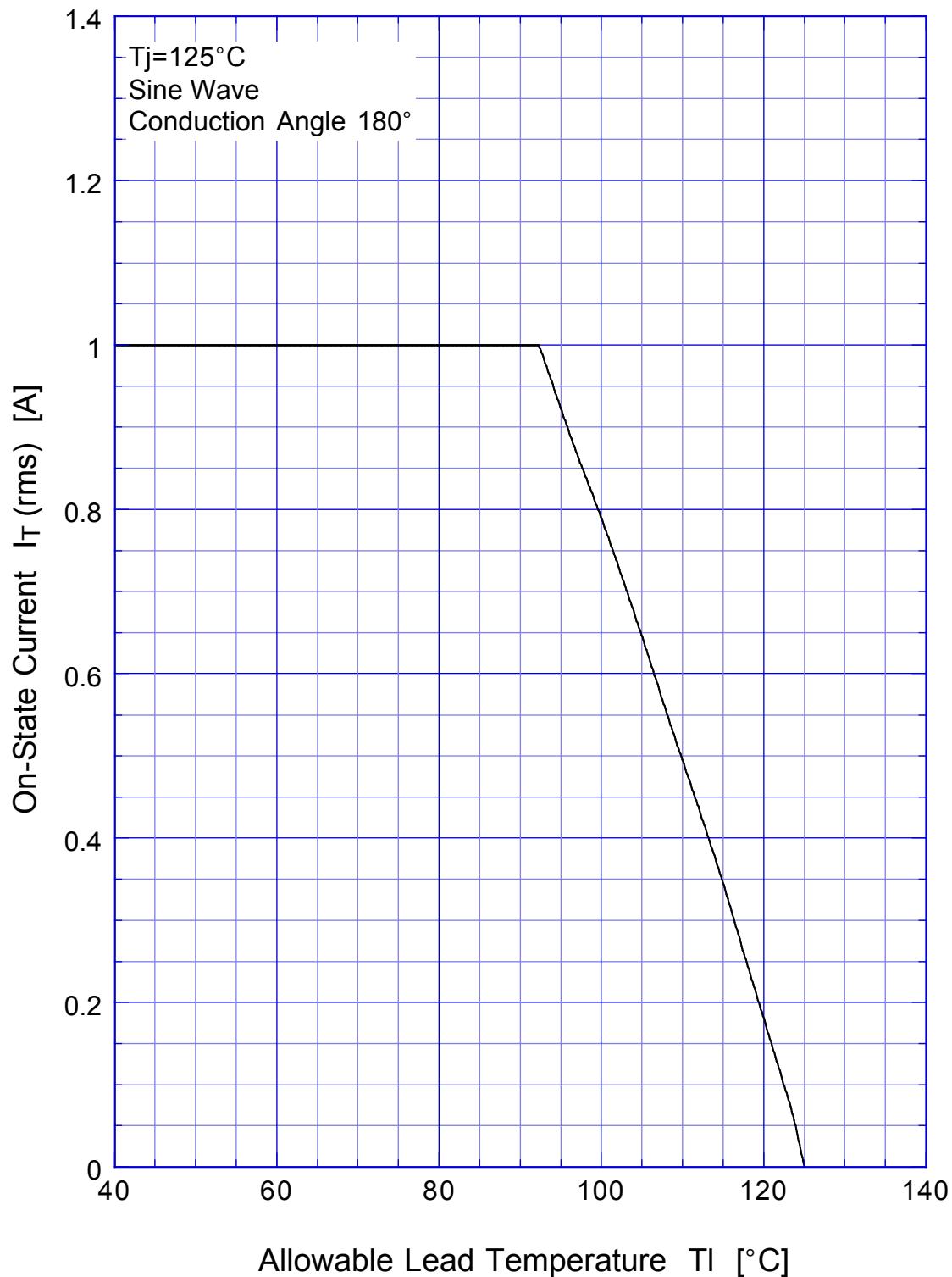


K1V33(W)

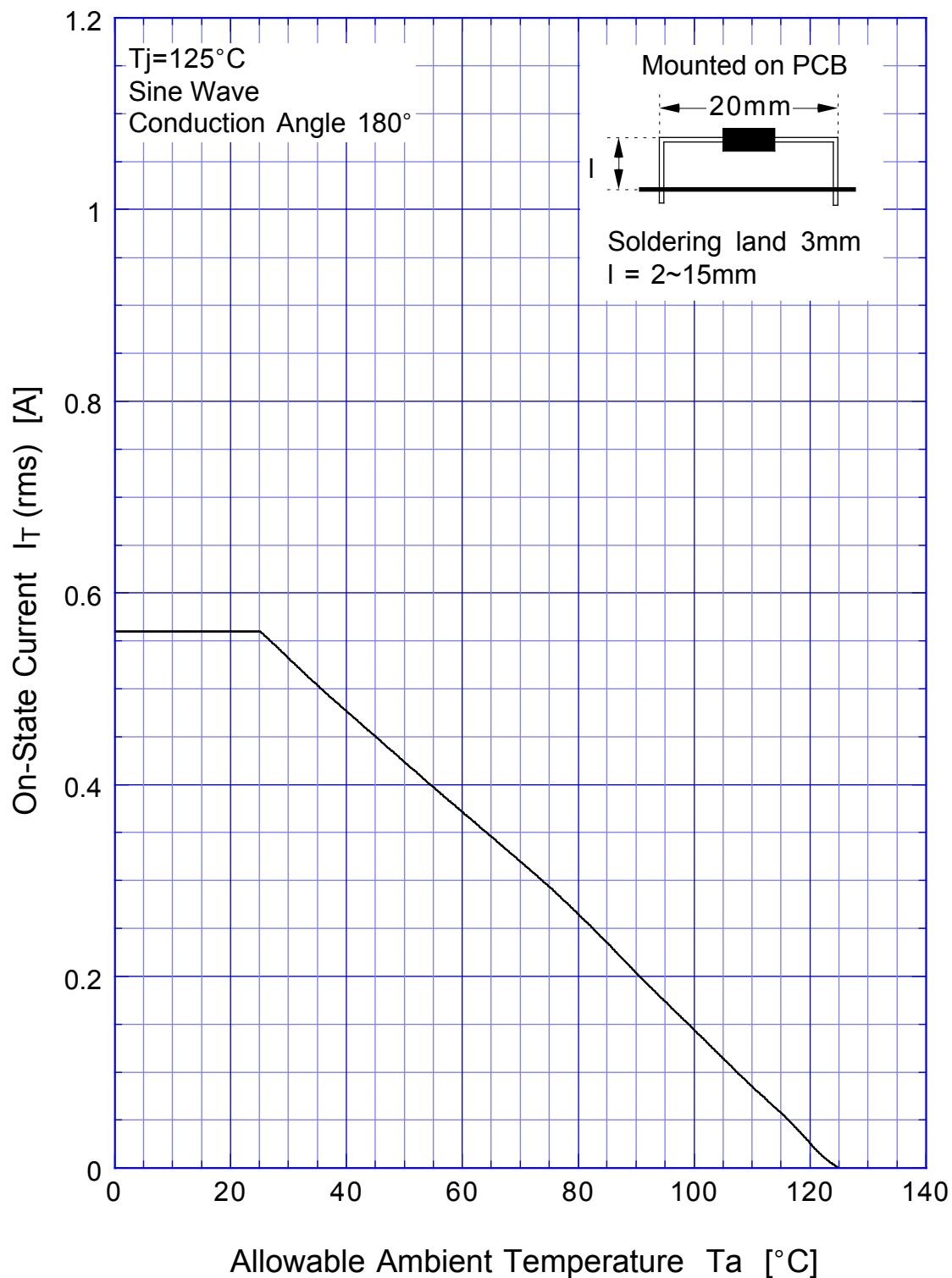
K1V34(W)

K1V36(W)

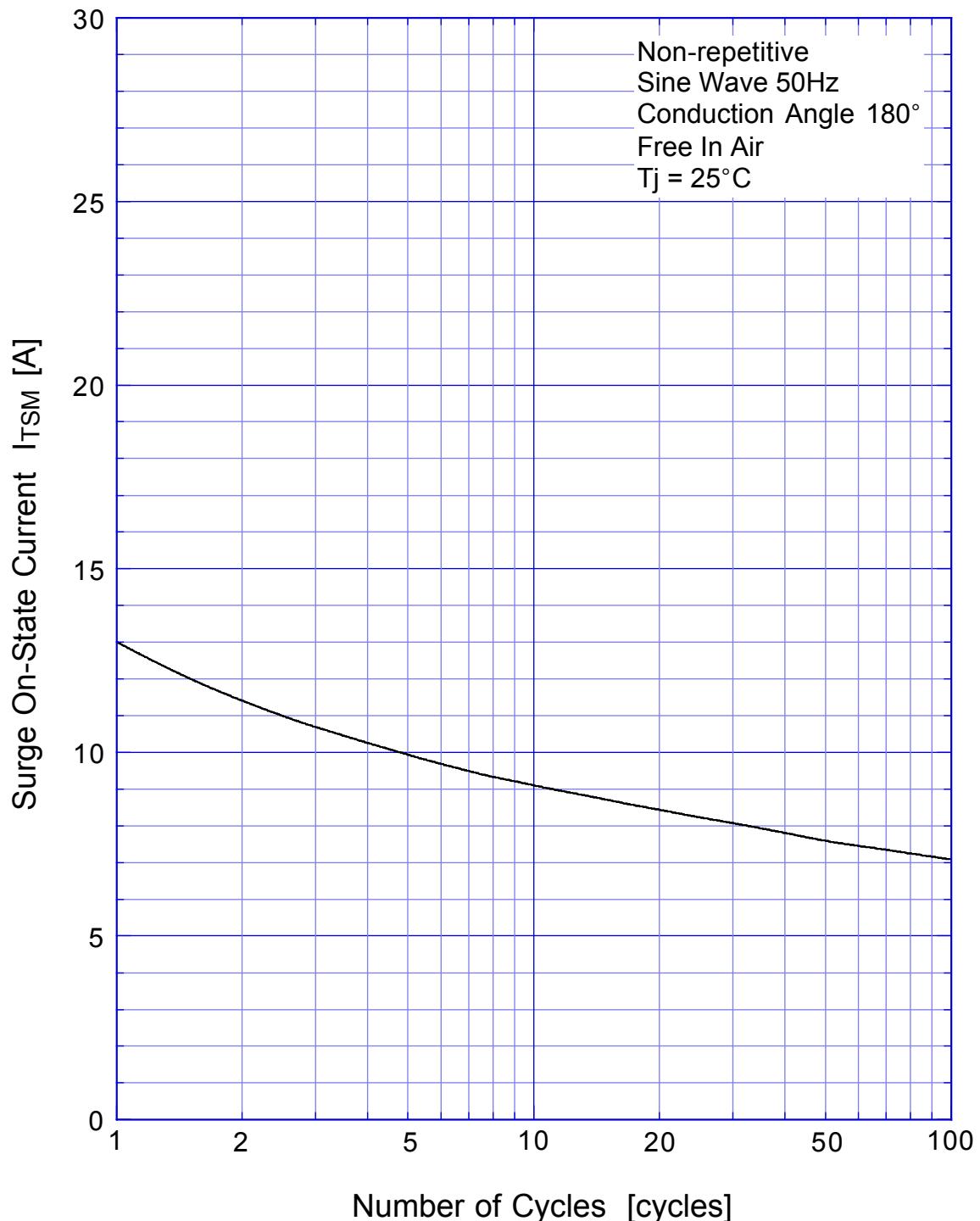
K1V38(W) Maximum Lead Temperature



K1V33(W)
K1V34(W)
K1V36(W)
K1V38(W) Maximum Ambient Temperature

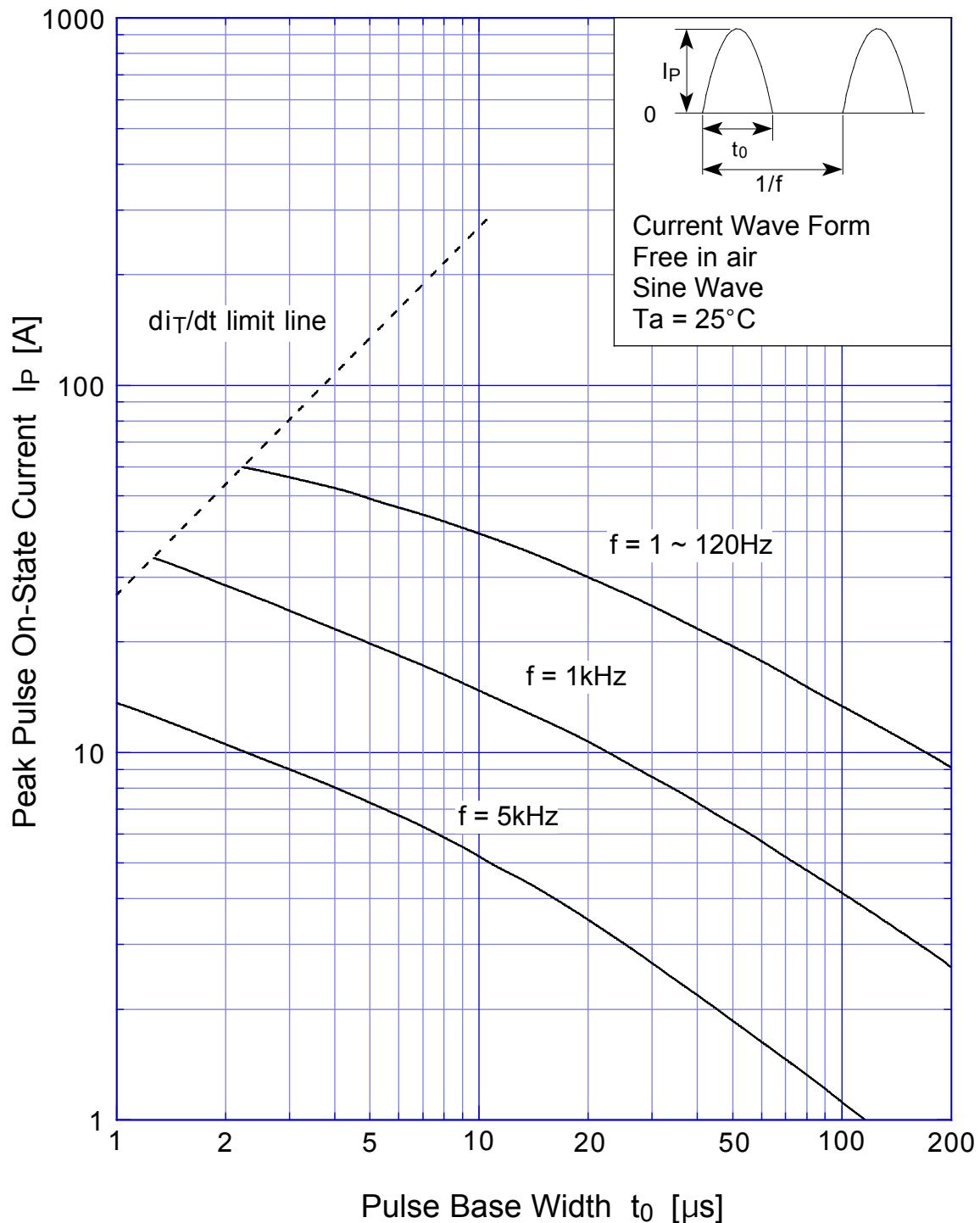


K1V33(W)
K1V34(W)
K1V36(W)
K1V38(W) Maximum Surge On-State Current



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

