

K1V(A)11
SIDACs / Bi-directional (K1V Series)
90V, 10μA

Feature

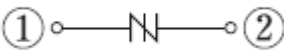
- Bi-directional type
- Wide-ranging pulse generation
- Direct switching with commercial power
- A reliable product with a track record, developed for many applications
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): AX06



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Repetitive peak off-state voltage	V _{DRM}		90	V
On-state current (r.m.s.)	I _T (RMS)	Tl=109°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	16	A
Pulse on-state current	I _{TRM}	Ta=25°C, Pulse width to=10μs, Sine wave, f=1kHz	15	A
Pulse on-state current	I _{TRM}	Ta=25°C, Pulse width to=10μs, Sine wave, f=60Hz	60	A
Critical rate of rise of on-state current	di _T /dt		50	A/μs

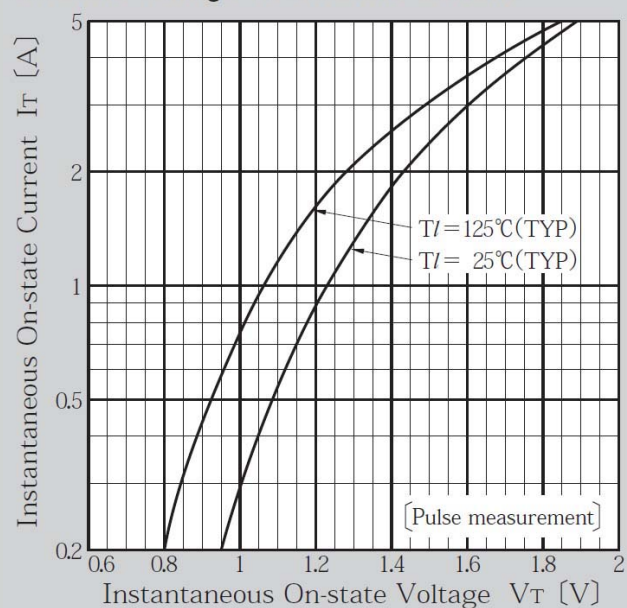
※ :See the original Specifications

Electrical Characteristics (unless otherwise specified : Tl=25°C)

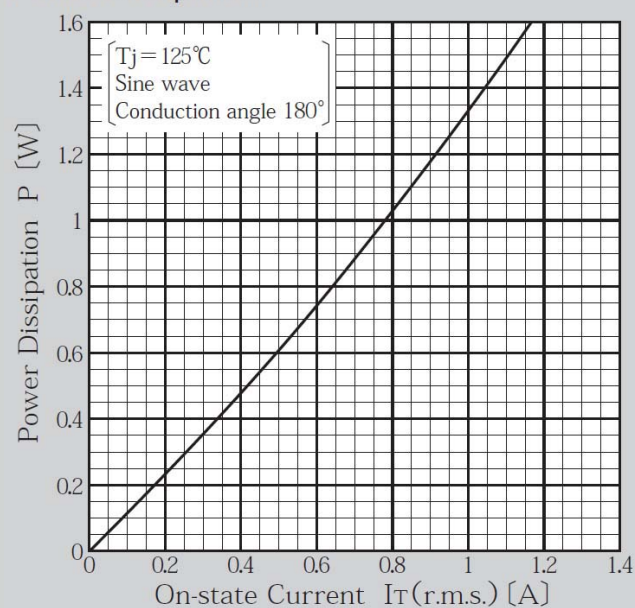
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V_{BO}	dv/dt=4V/ms, Pulse measurement	104		118	V
Off-state current	I_{DRM}	VD=90V			10	μA
Breakover current	I_{BO}				0.5	mA
Holding current	I_H			50		mA
On-state voltage	V_T	IT=1A			1.6	V
Switching Resistance	R_s		0.1			kΩ
Thermal Resistance	$R_{th(j-l)}$	Junction to lead			20	°C/W

※ :See the original Specifications

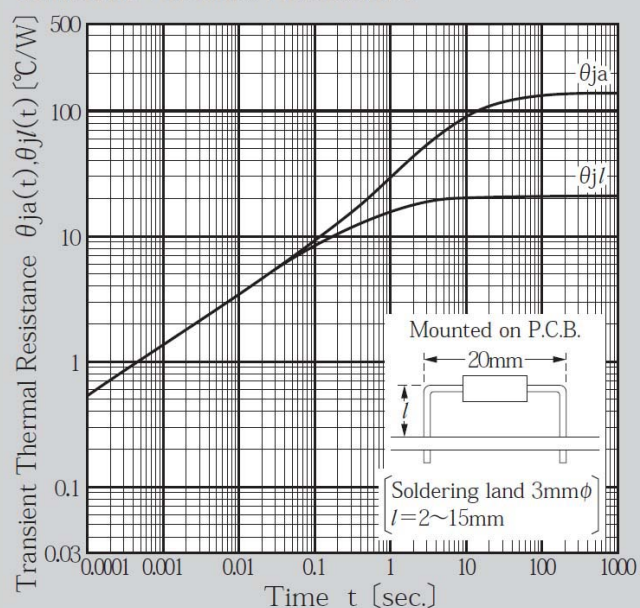
On-state Voltage vs On-state Current



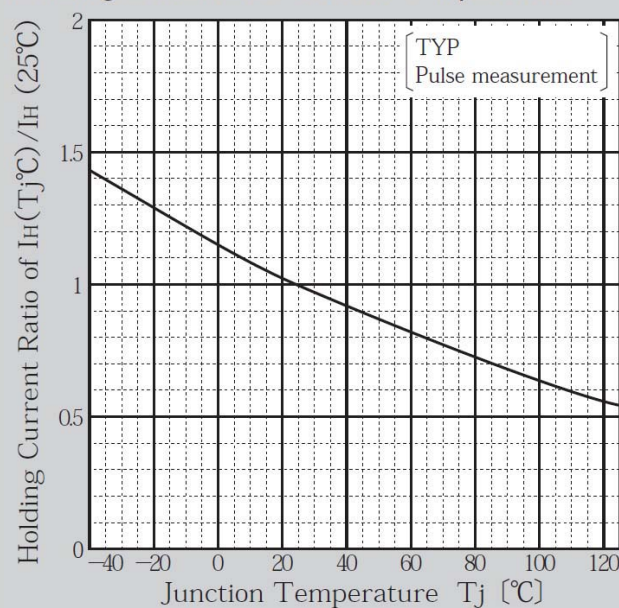
Power Dissipation



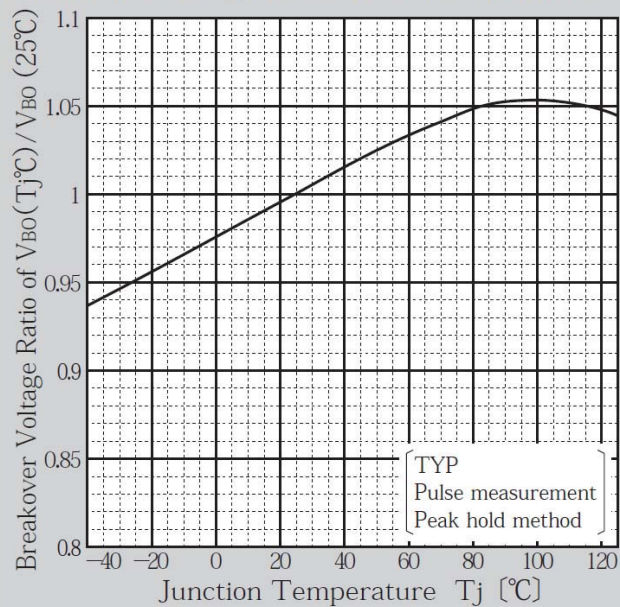
Transient Thermal Resistance



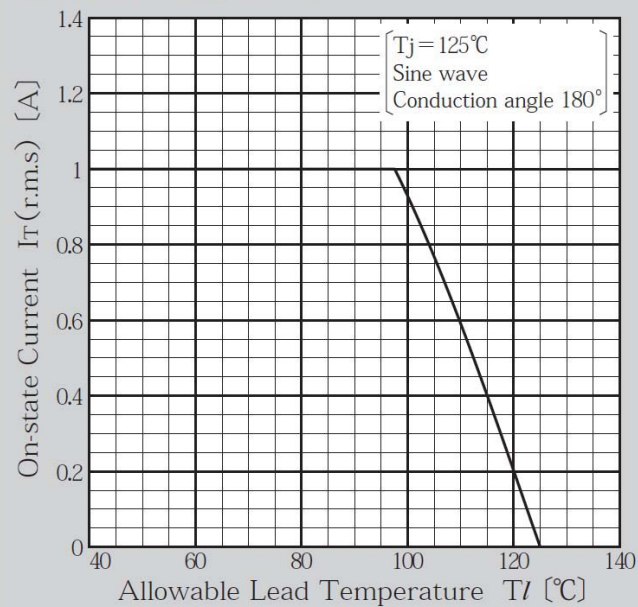
Holding Current vs Junction Temperature



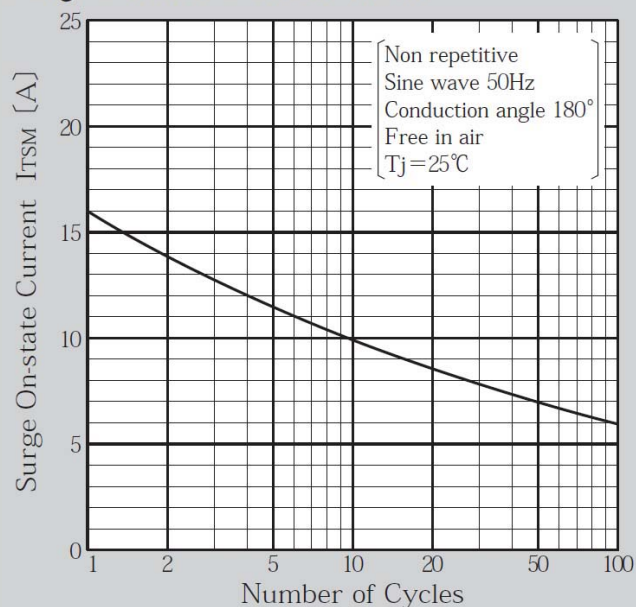
Breakover Voltage vs Junction Temperature



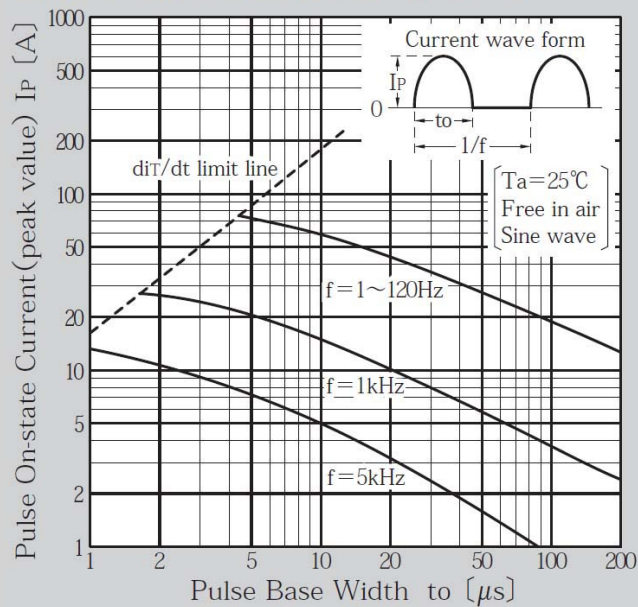
Max. Lead Temperature



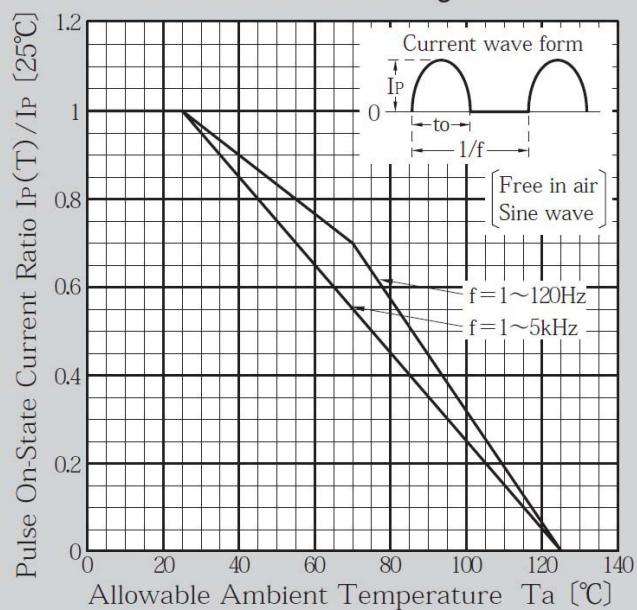
Surge On-state Current (ITSM)



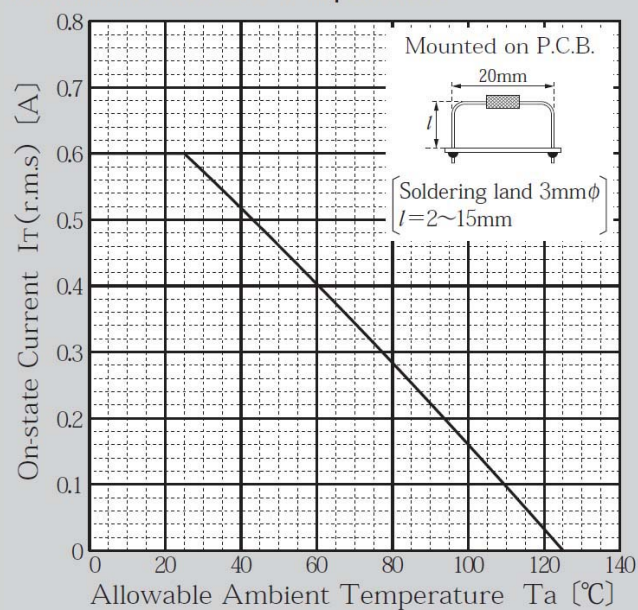
Pulse On-state Current Rating (ITRM)



Pulse On-state Current Derating (ITRM)

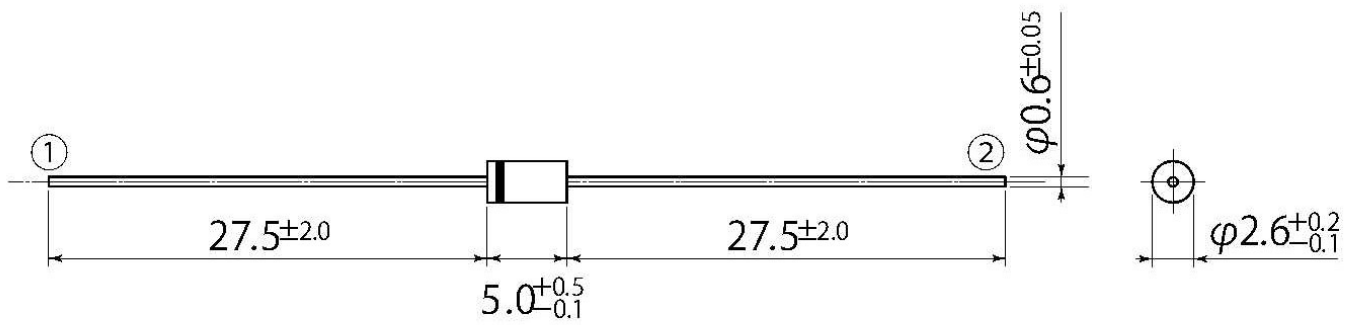


Maximum Ambient Temperature



A2

JEDEC Code	—
JEITA Code	—
House Name	AX06



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