KP20NU11

Thyristor Surge Suppressors
60V, 325A

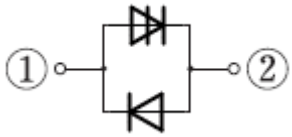
Feature

- Uni-Directional
- High-speed response characteristic
- Large surge current capacity
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 2F

Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	℃
Junction temperature	Tj		125	℃
Non-repetitive peak reverse voltage	V_{DSM}		92	V
Repetitive peak reverse voltage	V_{DRM}		60	V
Peak surge on-state current	I_{TSM}	V=10/700μs 13kV, Non-Repetitive, R=15+25Ω	325	A
Peak surge forward current	I_{FSM}	V=10/700μs 13kV, Non-Repetitive, R=15+25Ω	325	A

※ :See the original Specifications

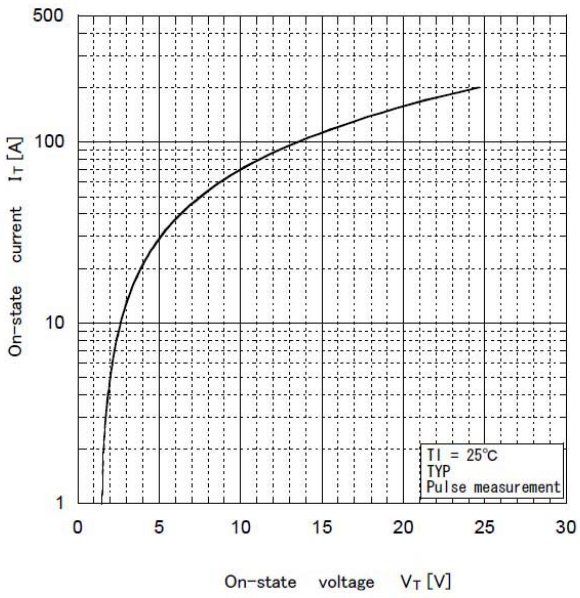
Electrical Characteristics (unless otherwise specified : Tl=25℃)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V_{BO}	dV/dt=8V/ms	100		115	V
Clamping voltage	V_{CL}	dV/dt=100V/μs			130	V
Off-state current	I_{DSM}	VD=92V			5	μA
Holding current	I_H	Pulse measurement	150			mA
On-State Voltage	V_T	IT=2A			5	V
Junction capacitance	Cj	f=160kHz, VD=14V, OSC=20mV		295		pF

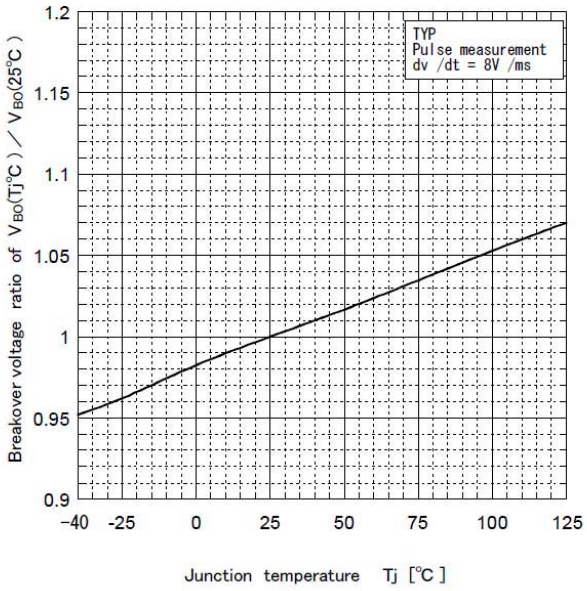
※ ：See the original Specifications

CHARACTERISTIC DIAGRAMS

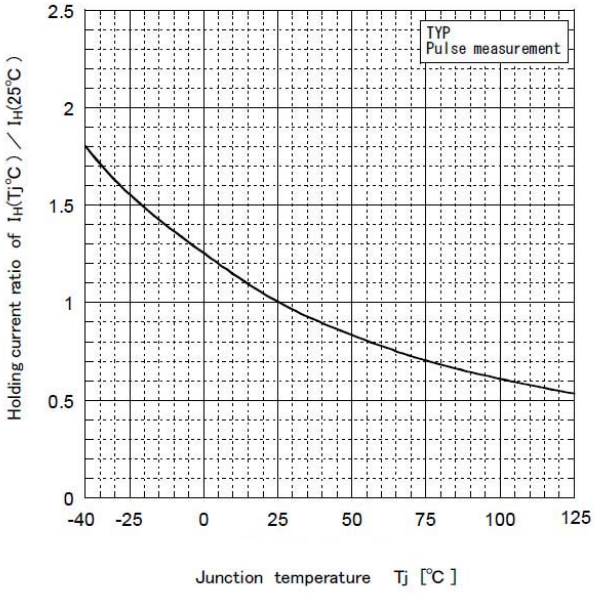
On-state voltage vs On-state current



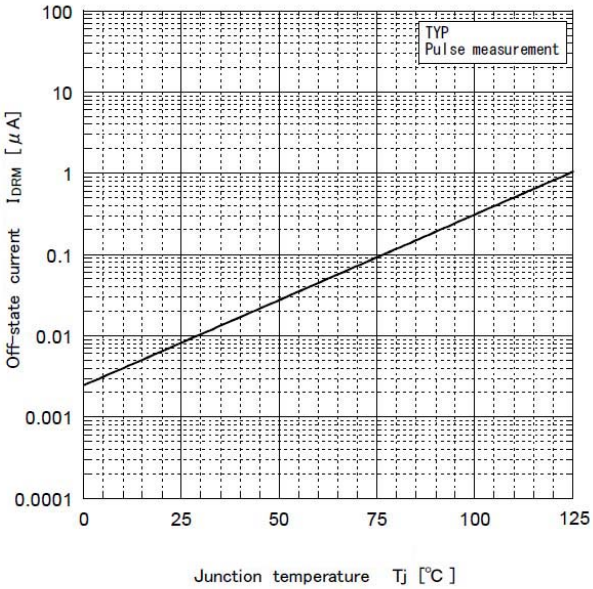
Breakover voltage vs Junction temperature



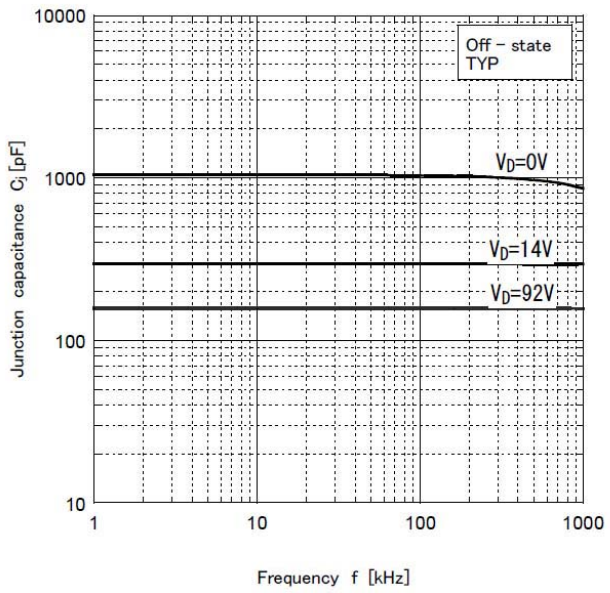
Holding Current vs Junction Temperature



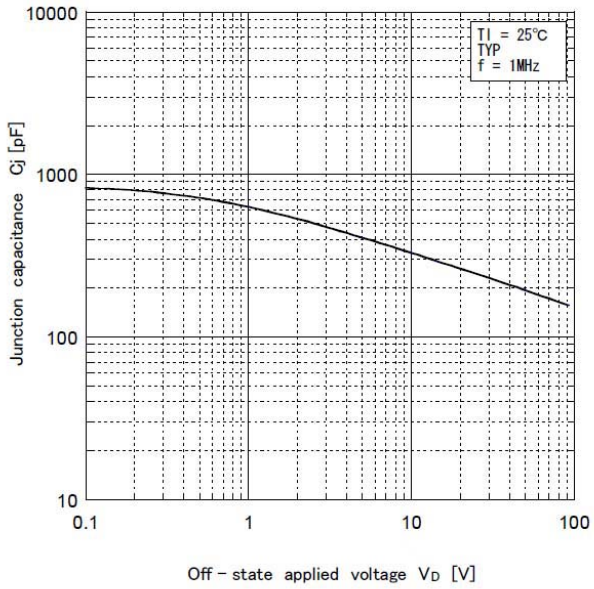
Off-state current vs Junction temperature



Junction capacitance



Junction capacitance



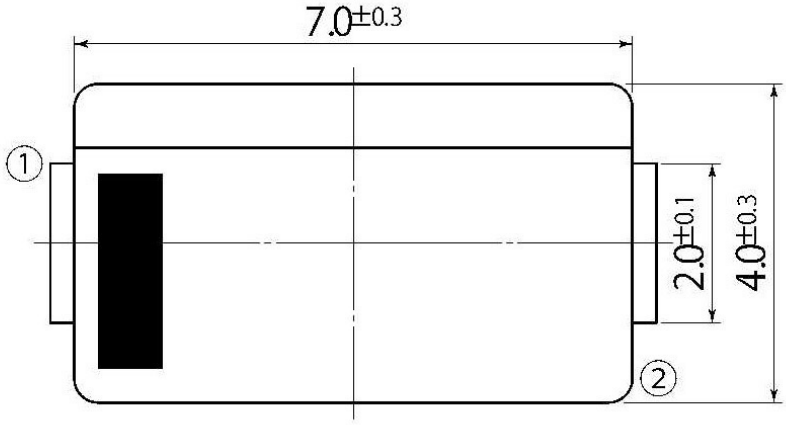
Outline Dimensions

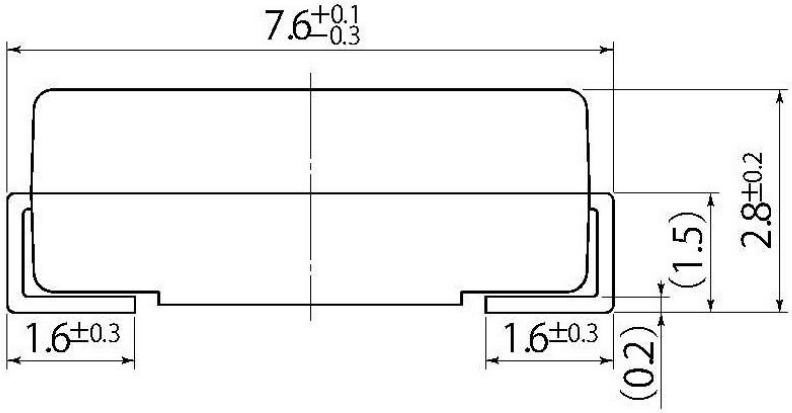
unit:mm

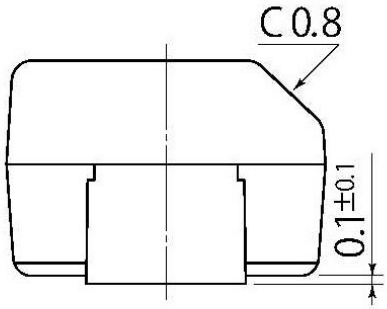
scale: 10/1

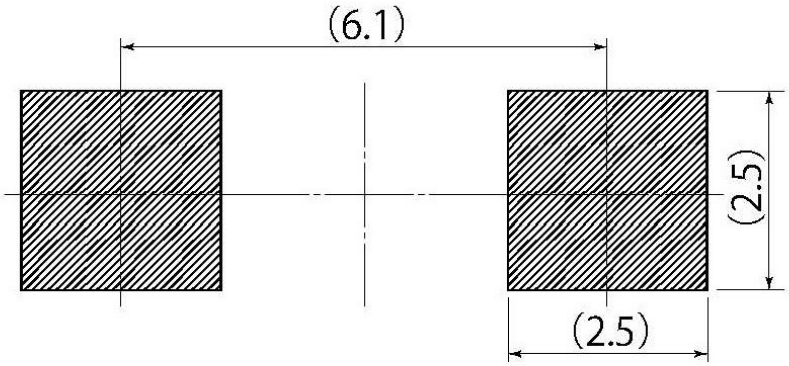
B9

JEDEC Code	–
JEITA Code	–
House Name	2F









Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condi tion.