

KP40RU22

Thyristor Surge Suppressors
60V, 500A(@10/700μs)

Feature

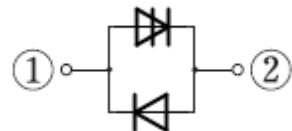
- Uni-Directional
- High-speed response characteristic
- Large surge current capacity
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 2F



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-40 to 125	°C
Junction temperature	T _j		125	°C
Non-repetitive peak reverse voltage	V _{DSM}		180	V
Repetitive peak reverse voltage	V _{DRM}		60	V
Peak surge on-state current	I _{TSM}	V=10/700μs 20kV, Non-Repetitive, R=15+25Ω	500	A
Peak surge forward current	I _{FSM}	V=10/700μs 20kV, Non-Repetitive, R=15+25Ω	500	A

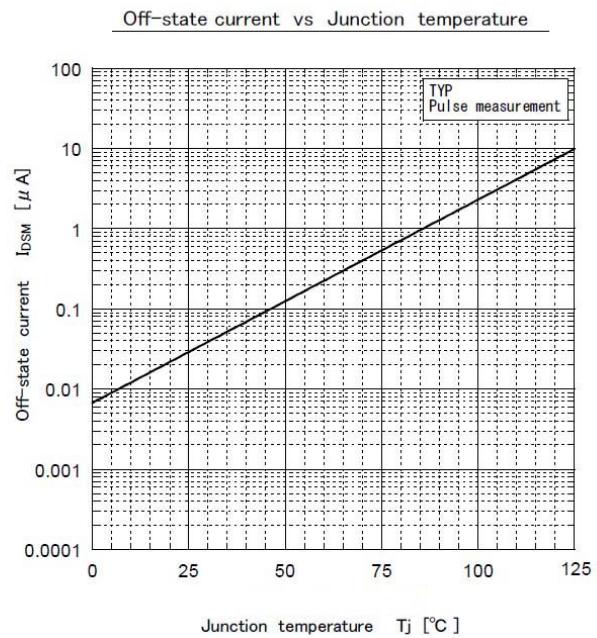
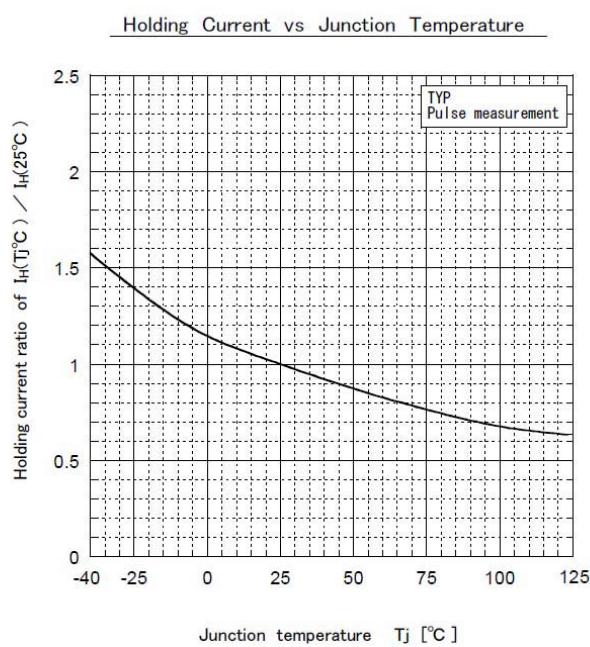
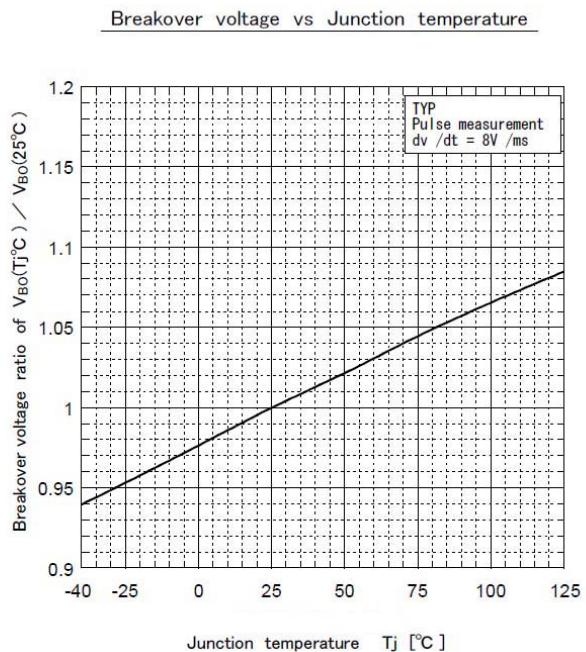
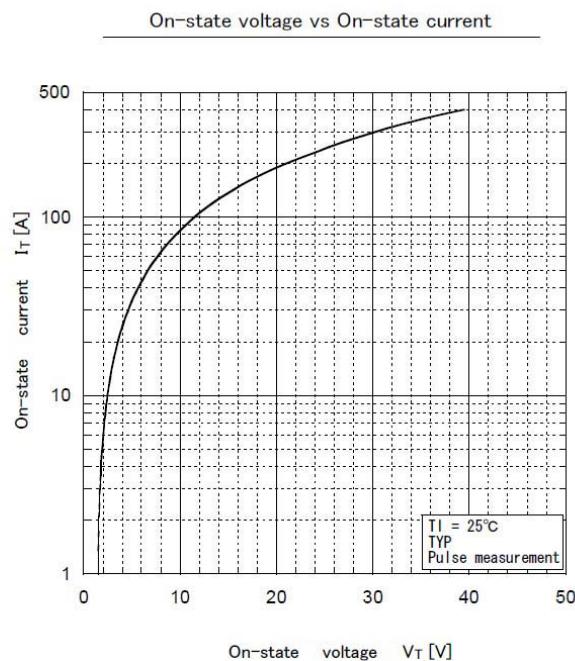
※ : See the original Specifications

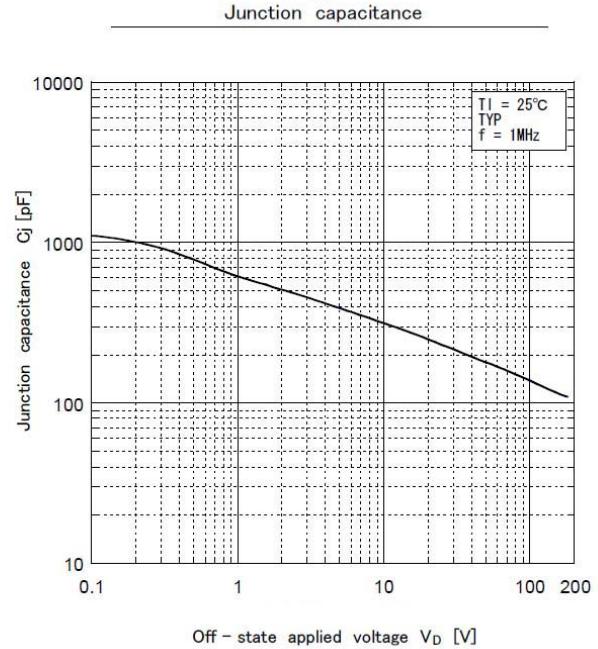
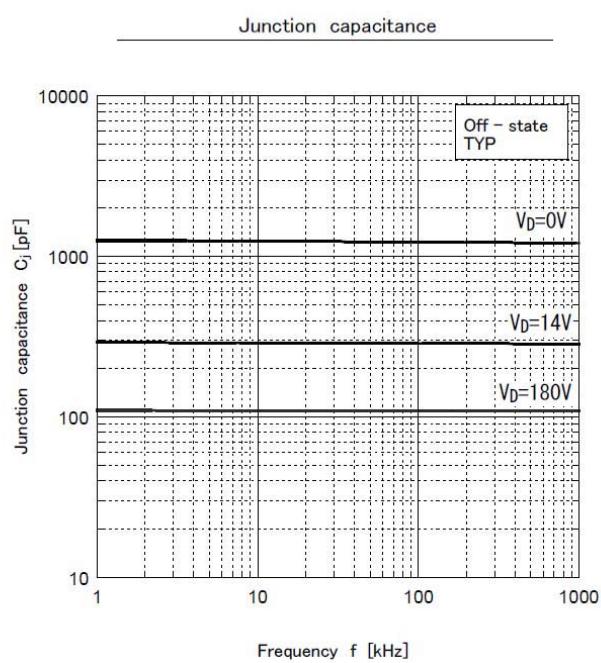
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V_{BO}	$dV/dt=8V/ms$	195		225	V
Clamping voltage	V_{CL}	$dV/dt=100V/\mu s$			250	V
Off-state current	I_{DSM}	$VD=180V$			5	μA
Holding current	I_H	Pulse measurement	100			mA
On-State Voltage	V_T	$IT=2A$			5	V
Junction capacitance	C_j	$f=160kHz, VD=14V, OSC=20mV$		285		pF

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS





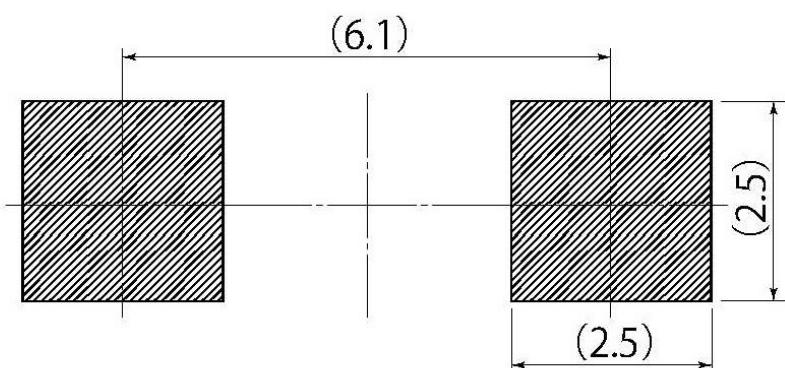
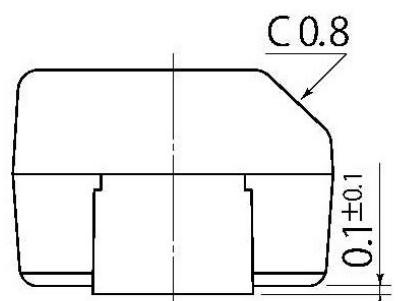
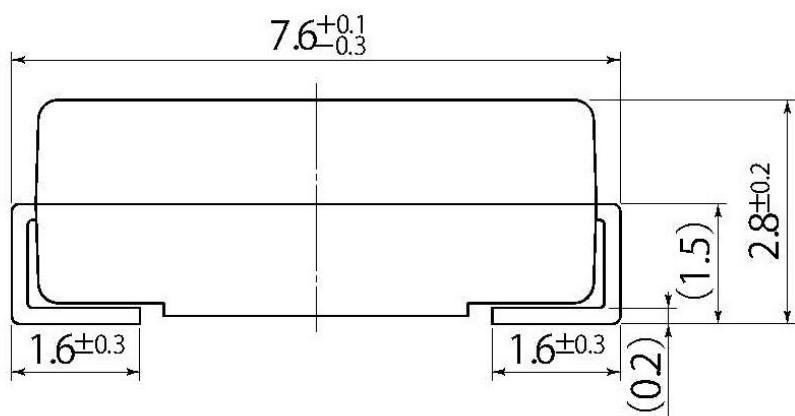
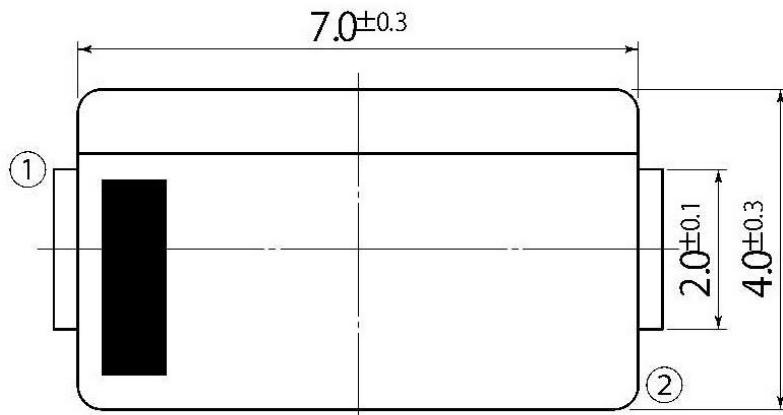
Outline Dimensions

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 condition.

Notes

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【Special applications】

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【Specific applications】

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