

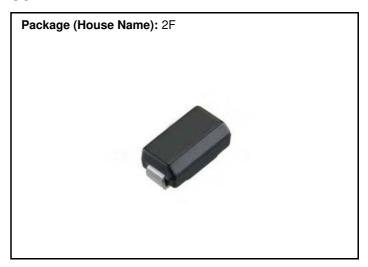
KP40NU11

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

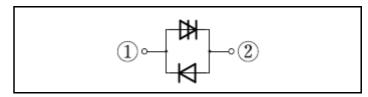
Feature

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

OUTLINE



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Non-repetitive peak reverse voltage	V_{DSM}		92	V
Repetitive peak reverse voltage	V_{DRM}		60	٧
Peak surge on-state current	I _{TSM}	V=10/700 μ s 20kV, Non-Repetitive, Ri=15 Ω , RL=25 Ω	500	Α
Peak surge forward current	I _{FSM}	V=10/700 μ s 20kV, Non-Repetitive, Ri=15 Ω , RL=25 Ω	500	Α

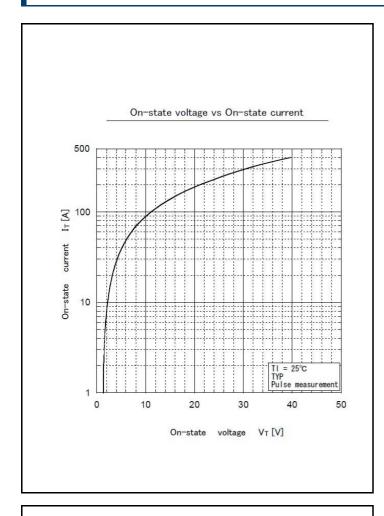
^{* :} See the original Specifications

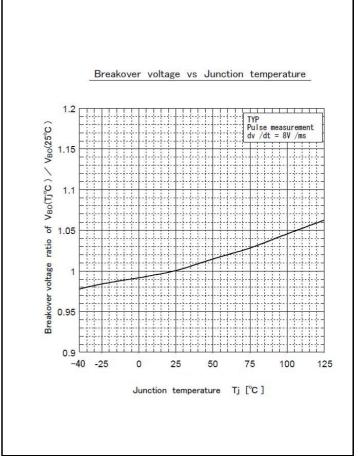
Electrical Characteristics (unless otherwise specified : TI=25°C)

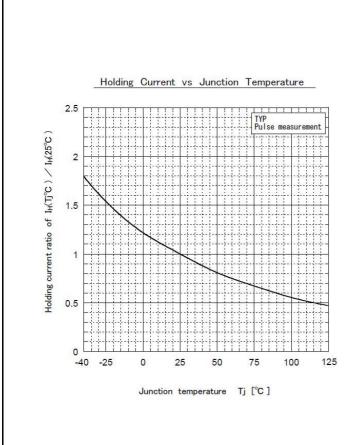
ltem	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O.I.I.
Breakover voltage	V _{BO}	dV/dt=8V/ms	100		115	V
Clamping voltage	V _{CL}	dV/dt=100V/μs			130	V
Off-state current	I _{DSM}	VD=92V			5	μΑ
Holding current	I _H	Pulse measurement	150			mA
On-State Voltage	V _T	IT=2A			5	V
Junction capacitance	Cj	f=160kHz, VD=14V, OSC=20mV		485		pF

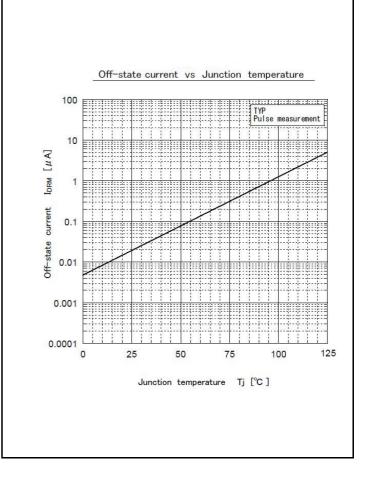
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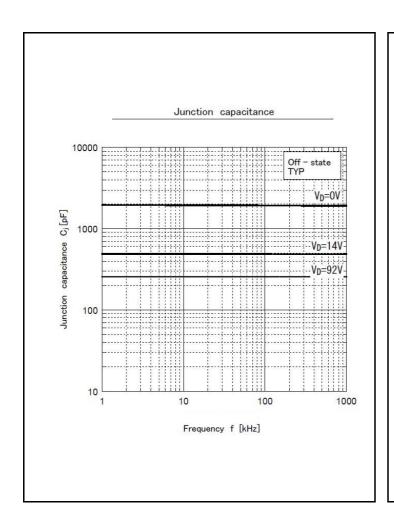
CHARACTERISTIC DIAGRAMS

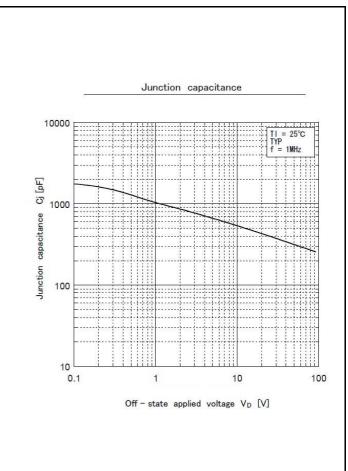






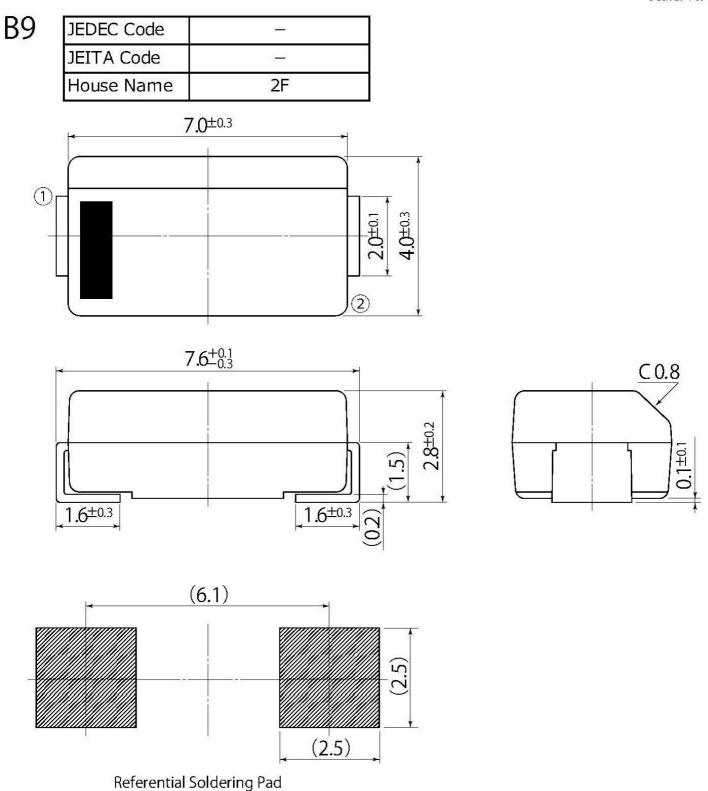






unit:mm

scale: 10/1



 $[\]bullet$ Optimize soldering pad to the board design and soldering condition.

Notes

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