

KL3R20

Thyristor Surge Suppressors 175V, 30A

Feature

- Bi-directional characteristic
- High-speed response characteristic
- Large surge current capacity
- Capable of repeated use for surges
- Pb free terminal
- RoHS:Yes

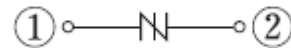
OUTLINE

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 125	°C
Junction temperature	Tj		125	°C
Repetitive peak reverse voltage	V _{DRM}		175	V
Peak surge on-state current	I _{TSM}	10/1000μs, Non-repetitive	30	A
Peak surge on-state current	I _{TSM}	8/20μs, Non-repetitive	100	A

※ :See the original Specifications

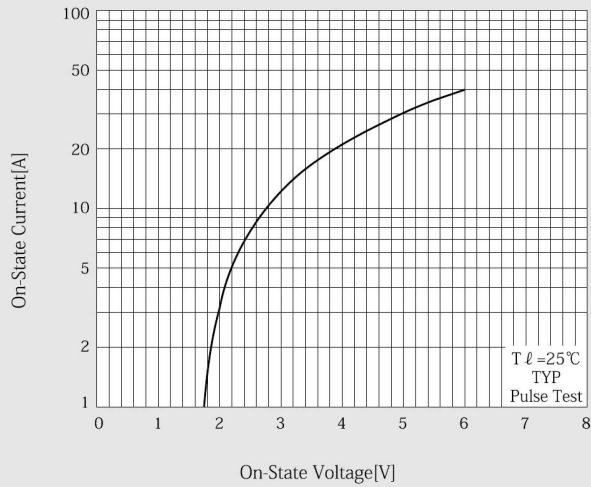
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V _{BO}	Pulse measurement	180			V
Clamping voltage	V _{CL}	dV/dt=100V/μs			250	V
Off-state current	I _{DSM}	VD=175V			10	μA
Holding current	I _H	Pulse measurement	100			mA
On-State Voltage	V _T	IT=2A		1.8		V
Junction capacitance	Cj	f=1kHz, VD=50VDC, OSC=1Vrms			30	pF

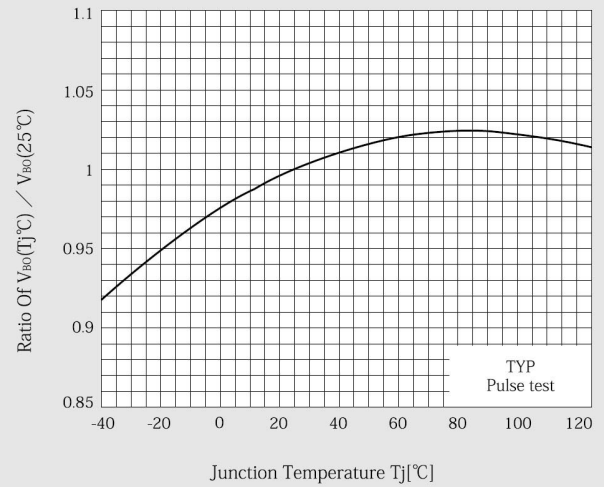
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

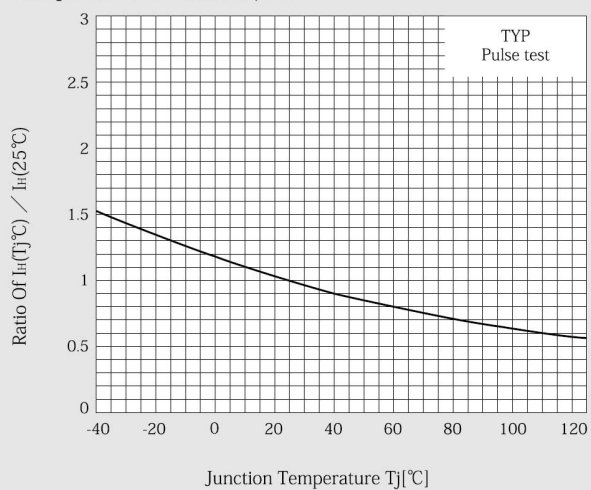
On-State Voltage vs On-State Current



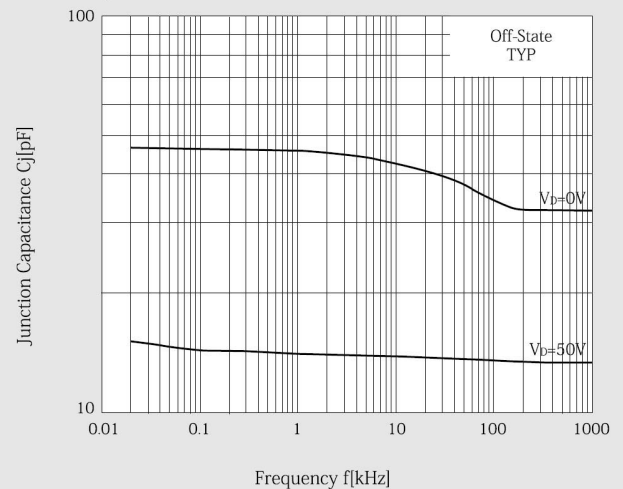
Break Over Voltage vs Junction Temperature

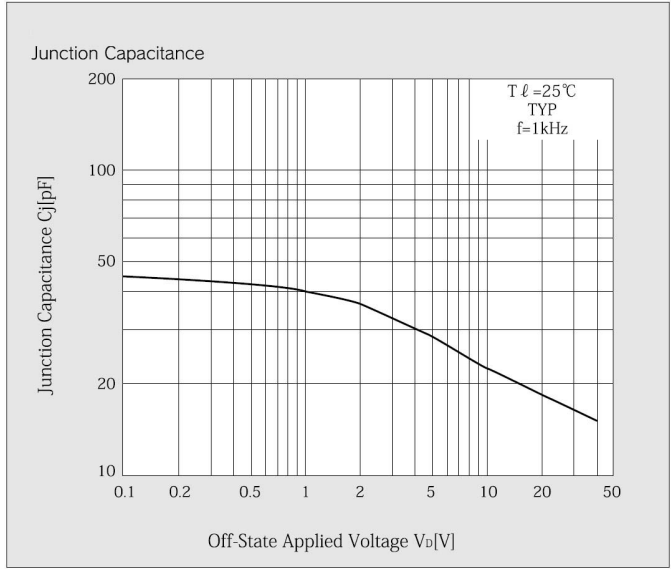


Holding Current vs Junction Temperature



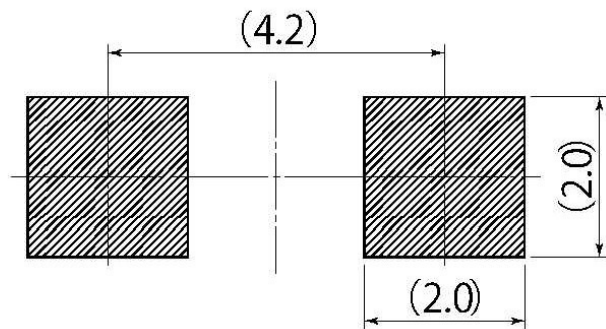
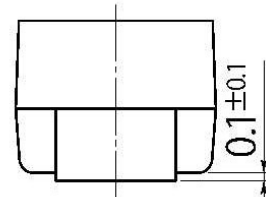
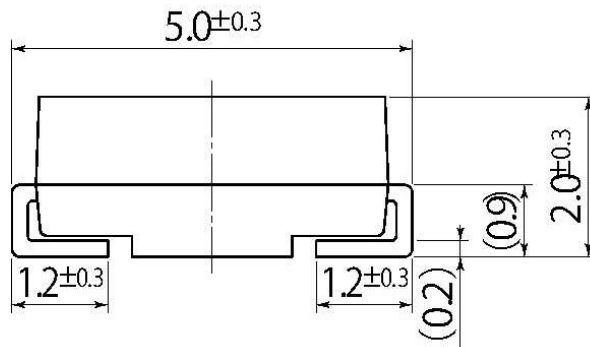
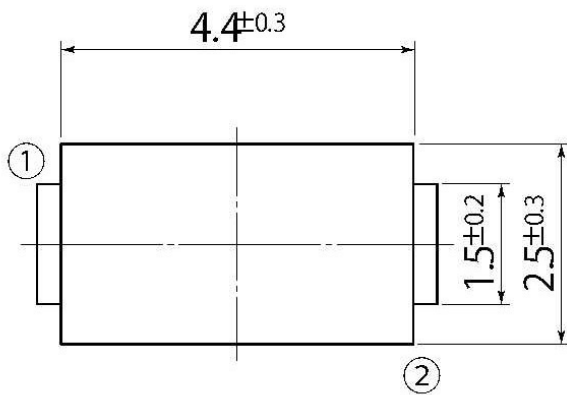
Junction Capacitance





B4

JEDEC Code	DO-214AC
JEITA Code	—
House Name	1F



Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.

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