

KL3R20

Thyristor Surge Suppressors
175V, 30A

Feature

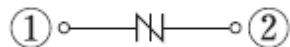
- Bi-directional characteristic
- High-speed response characteristic
- Large surge current capacity
- Capable of repeated use for surges
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1F
Package (JEDEC Code): DO-214AC



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : $T_I=25^\circ\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{STG}		-40 to 125	$^\circ\text{C}$
Junction temperature	T_J		125	$^\circ\text{C}$
Repetitive peak reverse voltage	V_{DRM}		175	V
Peak surge on-state current	I_{TSM}	10/1000 μs , Non-repetitive	30	A
Peak surge on-state current	I_{TSM}	8/20 μs , Non-repetitive	100	A

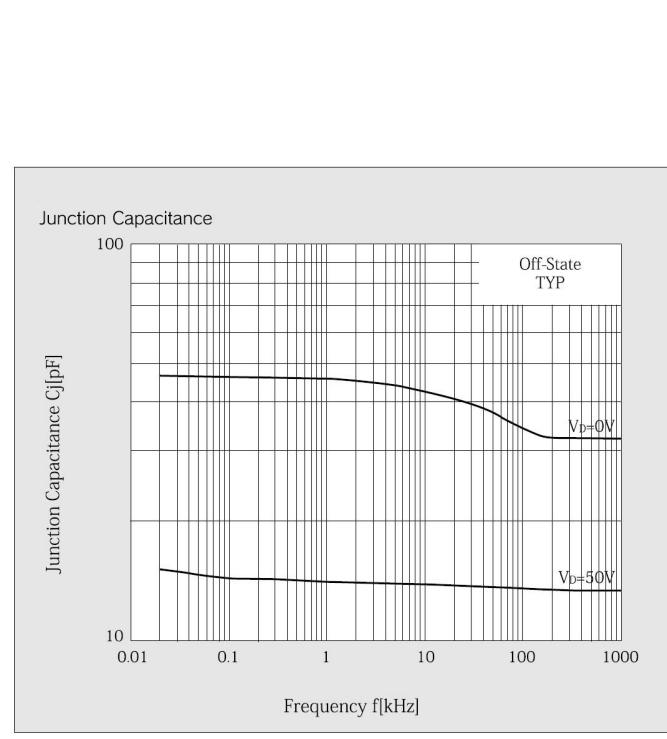
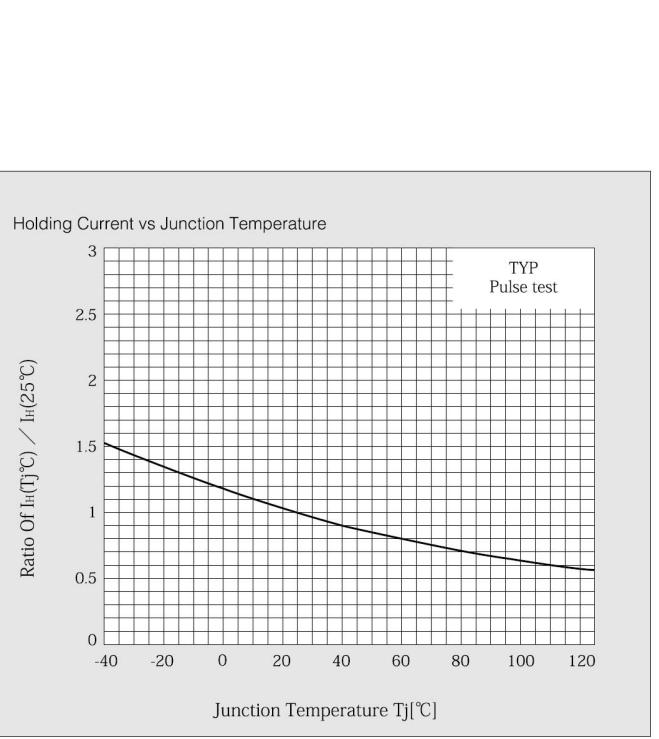
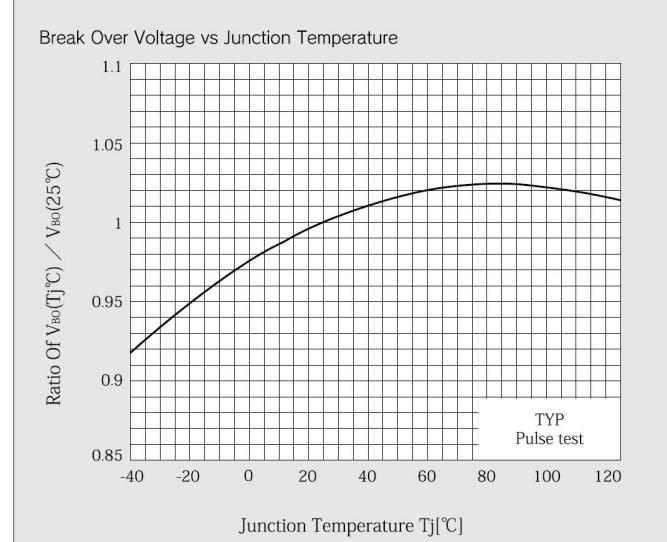
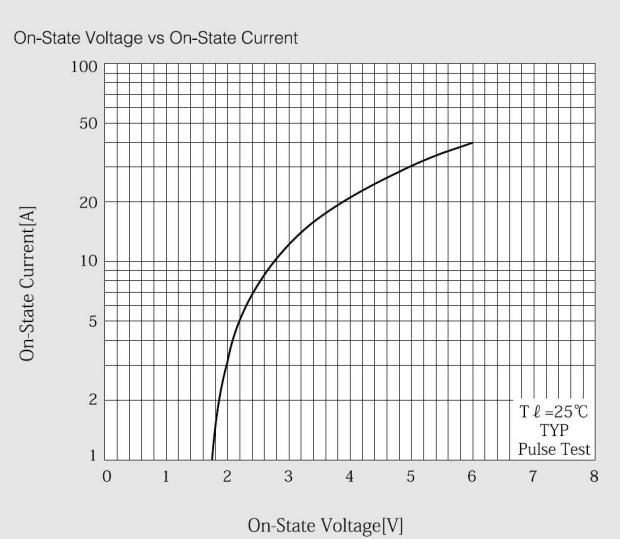
※ :See the original Specifications

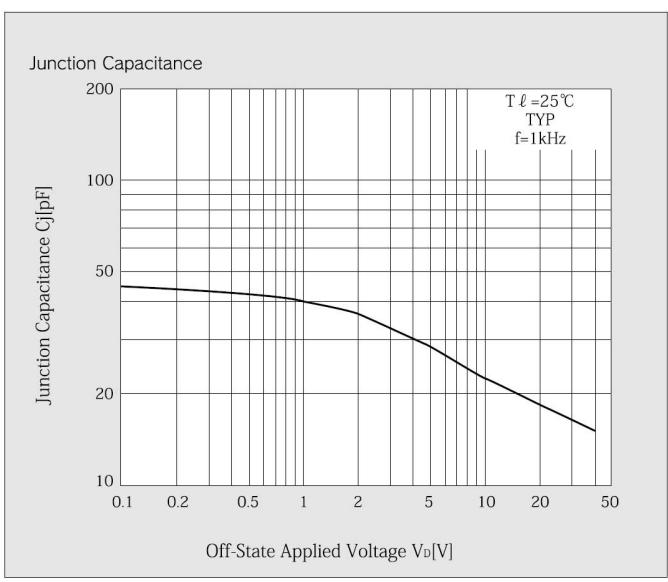
Electrical Characteristics (unless otherwise specified : $T_I=25^\circ\text{C}$)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V_{BO}	Pulse measurement	180			V
Clamping voltage	V_{CL}	$dV/dt=100\text{V}/\mu\text{s}$			250	V
Off-state current	I_{DSM}	$VD=175\text{V}$			10	μA
Holding current	I_H	Pulse measurement	100			mA
On-State Voltage	V_T	$IT=2\text{A}$		1.8		V
Junction capacitance	C_J	$f=1\text{kHz}$, $VD=50\text{VDC}$, $OSC=1\text{Vrms}$			30	pF

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS





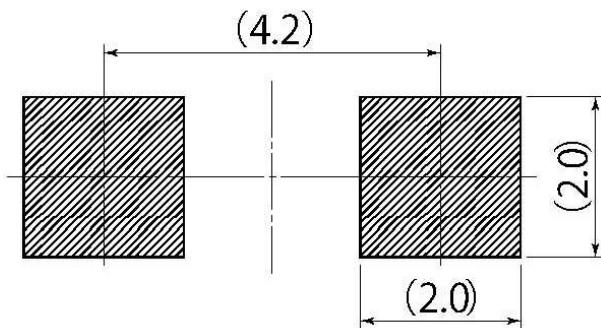
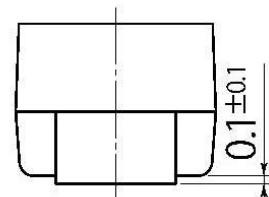
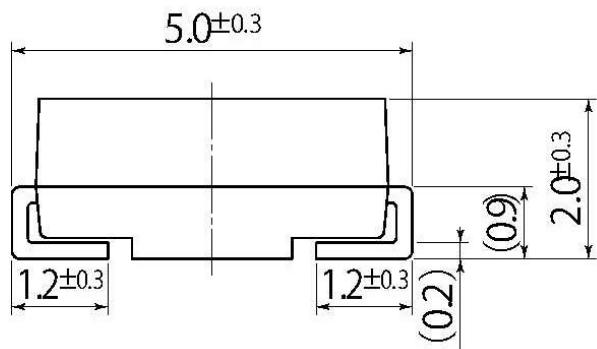
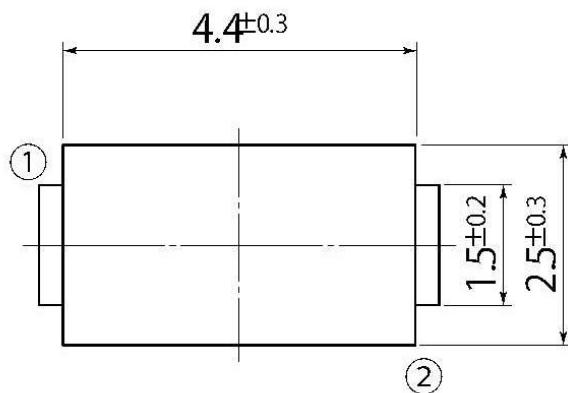
Outline Dimensions

unit:mm

scale: 10/1

B4

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



Referential Soldering Pad

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

Notes

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【Special applications】

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, anti-disaster/crime systems, safety equipment, medical equipment, etc.

【Specific applications】

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