

KU5S31NS

Thyristor Surge Suppressors
275V, 50A

Feature

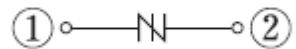
- Bi-directional characteristic
- High-speed response characteristic
- Large surge current capacity
- Capable of repeated use for surges
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): M2F
Package (JEDEC Code): DO-214AA similar



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
Repetitive peak reverse voltage	V _{DRM}		275		V
Peak surge on-state current	I _{TSM}	10/1000μs, Non-repetitive	50		A

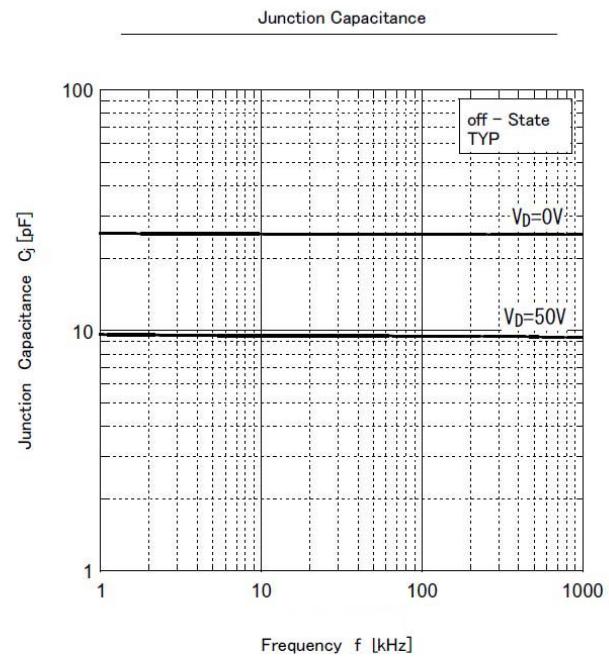
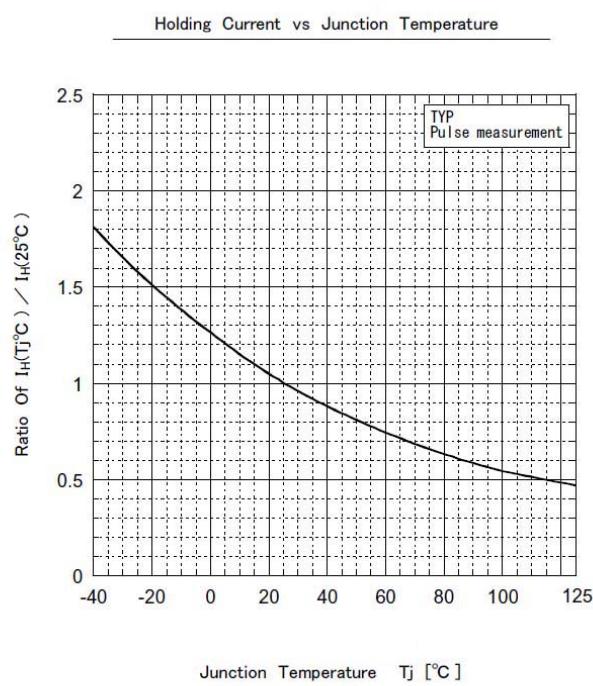
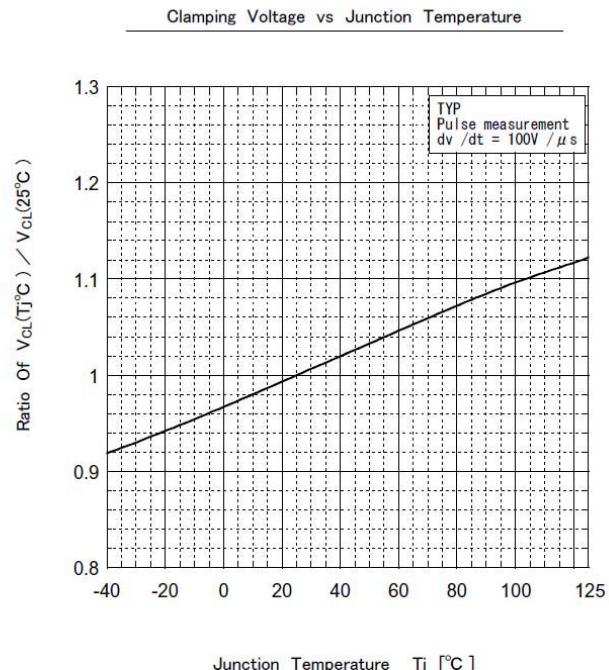
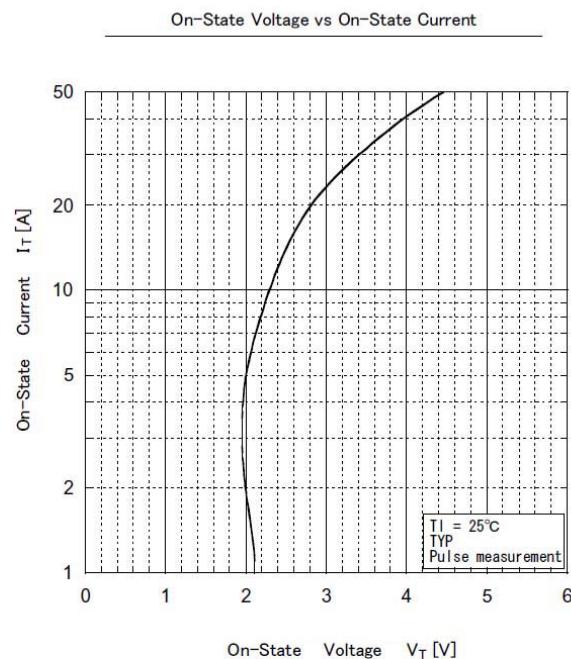
※ :See the original Specifications

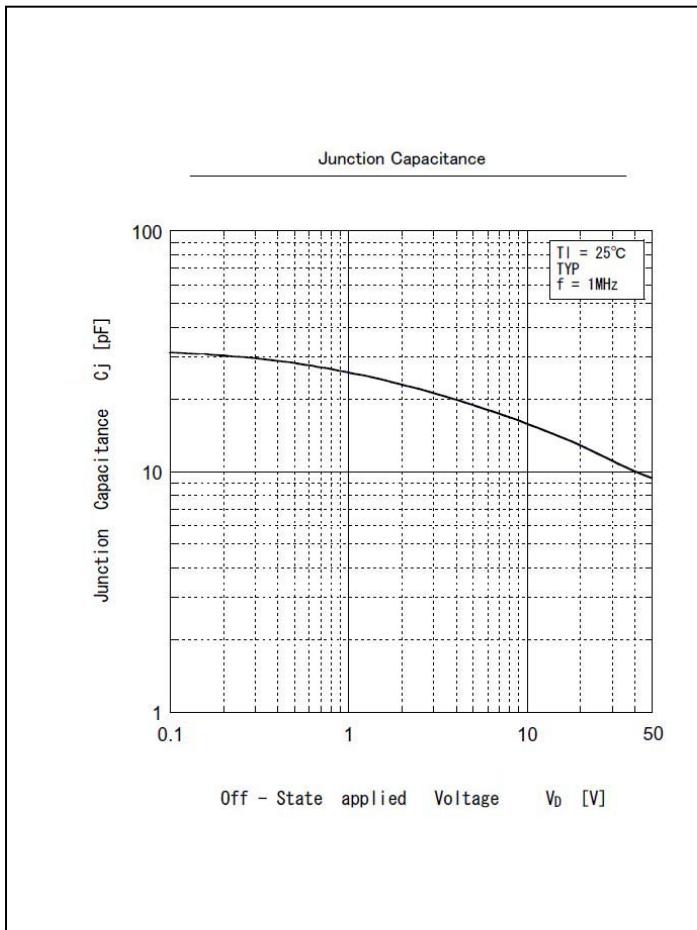
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Clamping voltage	V _{CL}	dV/dt=100V/μs			420	V
Off-state current	I _{DSM}	VD=275V			5	μA
Holding current	I _H	Pulse measurement	150			mA
On-State Voltage	V _T	IT=2A			3	V
Junction capacitance	C _J	f=1MHz, VD=50V, OSC=1Vrms			70	pF

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS





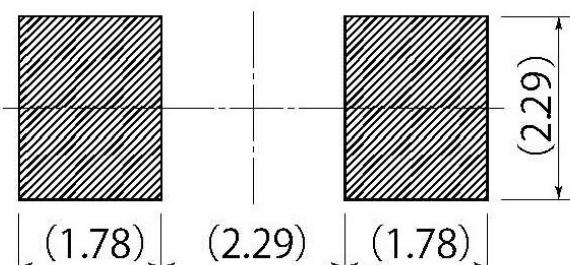
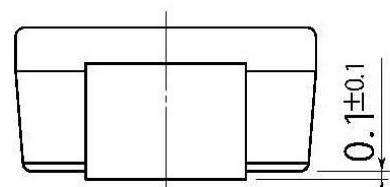
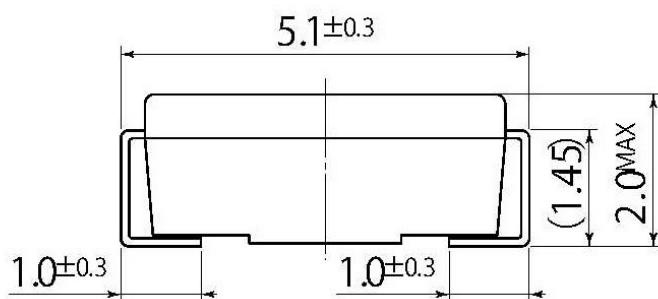
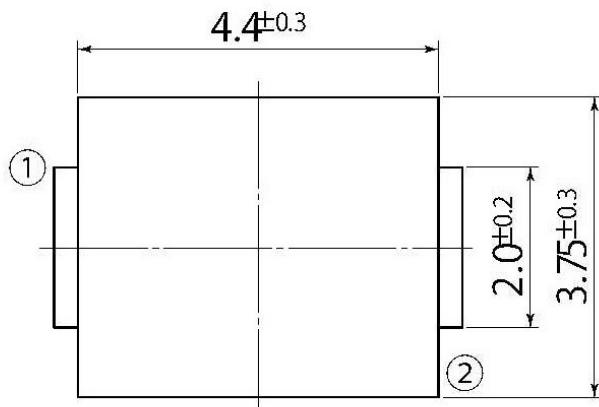
Outline Dimensions

unit:mm

scale: 10/1

B7

JEDEC Code	DO-214AA similar
JEITA Code	—
House Name	M2F



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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