ShinDengen

KU10R23NS

Thyristor Surge Suppressors
190V, 100A

Feature

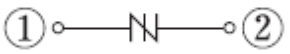
- Bi-directional characteristic
- High-speed response characteristic
- Large surge current capacity
- Capable of repeated use for surges
- Pb free terminal
- RoHS:Yes

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 temperrature	Tstg		-40 to 125	℃
Junction temperature	Tj		125	℃
Repetitive peak reverse voltage	V_{DRM}		190	V
Peak surge on-state current	I_{TSM}	10/1000μs, Non-repetitive	100	A

※ :See the original Specifications

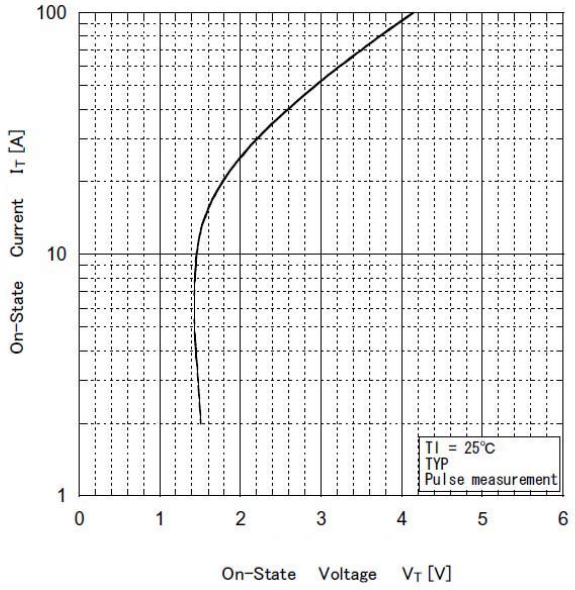
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Clamping voltage	V_{CL}	dV/dt=100V/μs			290	V
Off-state current	I_{DSM}	VD=190V			5	μA
Holding current	I_H	Pulse measurement	100			mA
On-State Voltage	V_T	IT=2A			3	V
Junction capacitance	Cj	f=1MHz, VD=50V, OSC=1Vrms			90	pF

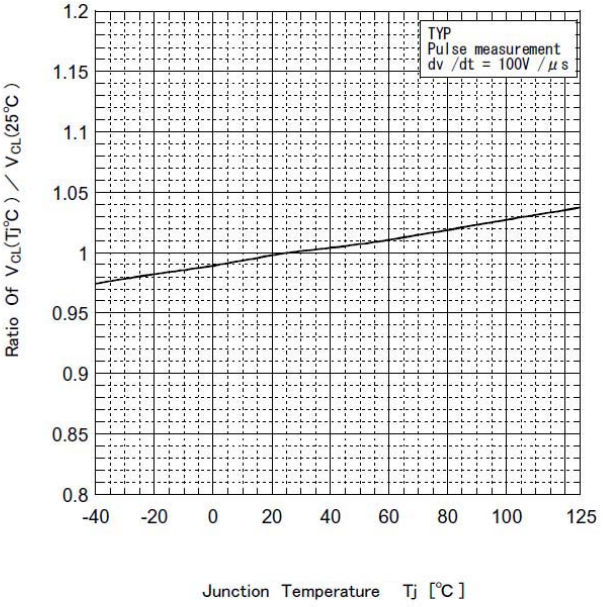
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

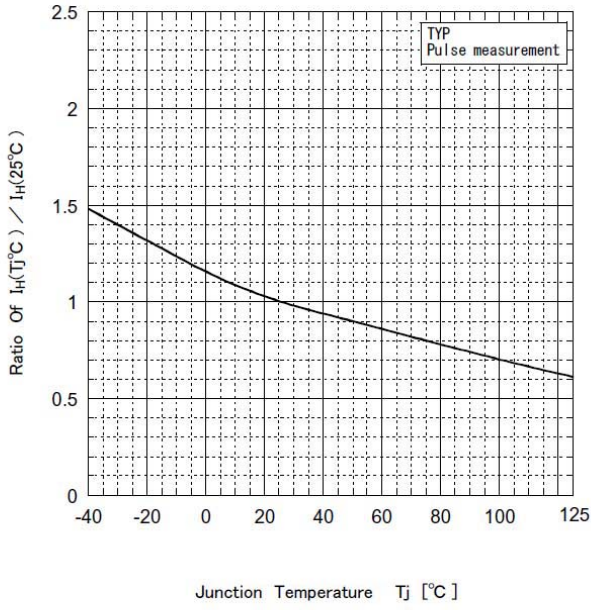
On-State Voltage vs On-State Current



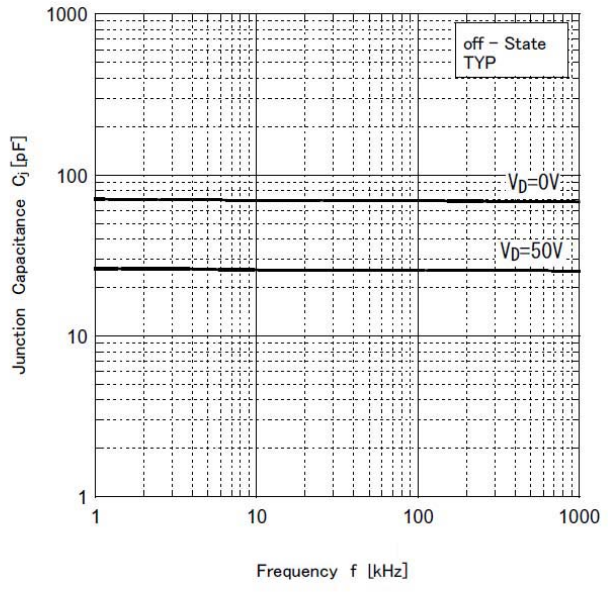
Clamping Voltage vs Junction Temperature

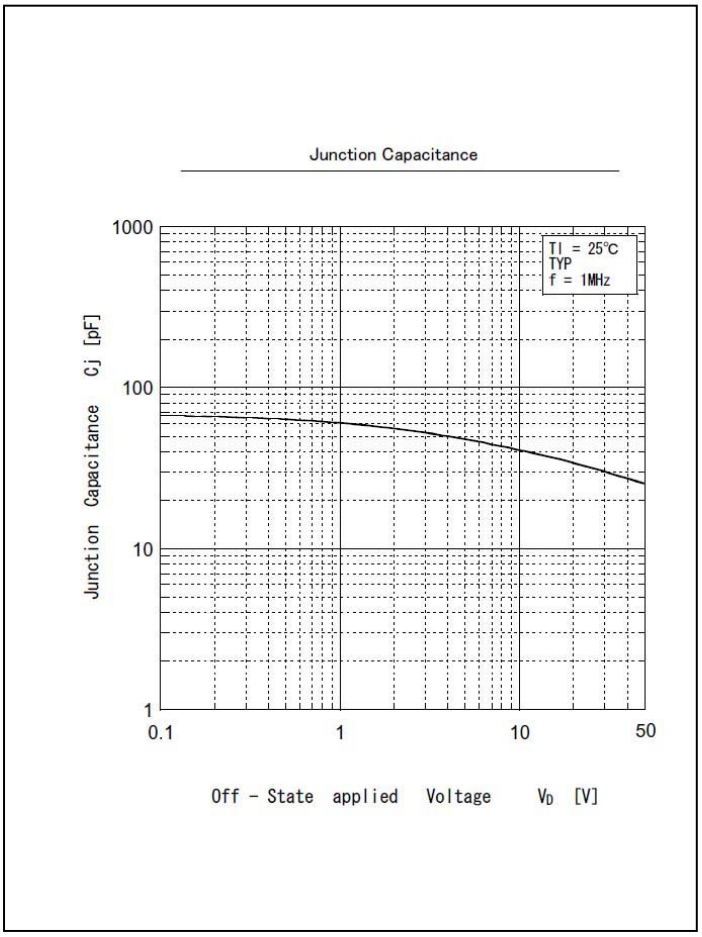


Holding Current vs Junction Temperature



Junction Capacitance



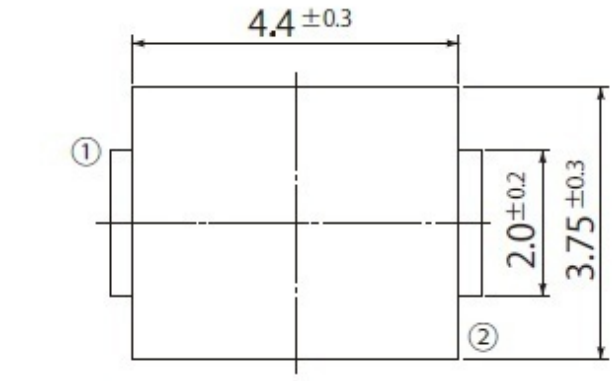

Junction Capacitance
Tl = 25℃
TYP
f = 1MHz
1000
100
10
1
0.1
1
10
50
Junction Capacitance Cj [pF]
Off - State applied Voltage VD [V]

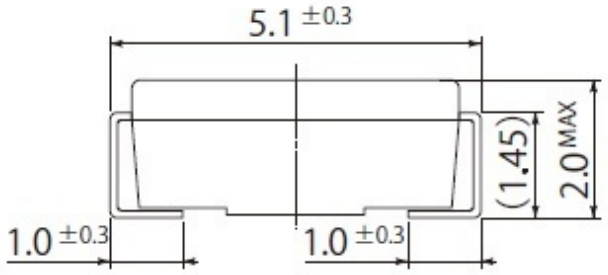
Outline Dimensions

unit:mm

B7

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





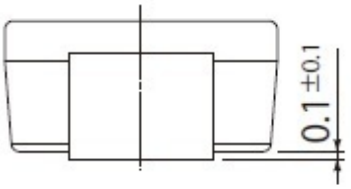
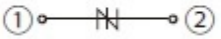
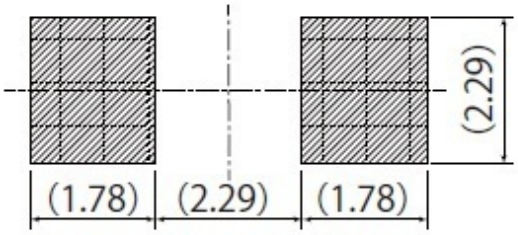


Fig. B7-1





Referential Soldering Pad

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

• The content specified herein is subject to change for improvement without notice.
• If you wish to use any such products, please be sure to refer to the specifications.

U182-1 (2026.08)

Notes

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   【Standard applications】
   Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.
   【Special applications】
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   【Specific applications】
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