

KU10NU13

Thyristor Surge Suppressors

60V, 100A

Feature

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

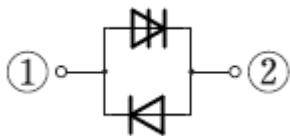
OUTLINE

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	°C
Junction temperature	Tj		-40 to 125	°C
Non-repetitive peak reverse voltage	VDSM		115	V
Repetitive peak reverse voltage	VDRM		60	V
Peak surge on-state current	ITSM	10/1000μs, Non-repetitive, Tj=25°C	100	A
Peak surge forward current	IFSM	10/1000μs, Non-repetitive, Tj=25°C	100	A

※ :See the original Specifications

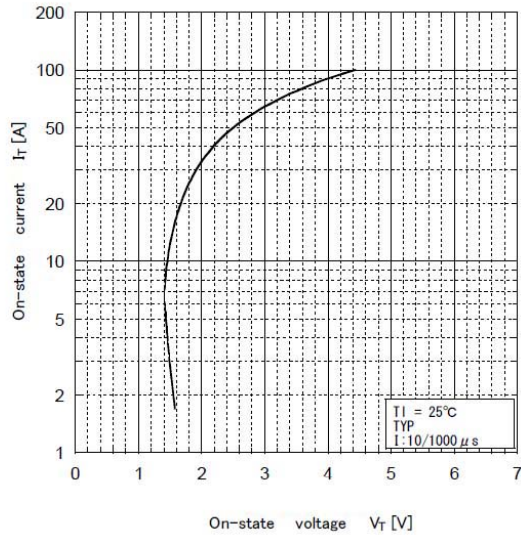
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Breakover voltage	V_{BO}	$dV/dt=8V/ms$	120		135	V
Clamping voltage	V_{CL}	$dV/dt=100V/\mu s$			145	V
Off-state current	I_{DSM}	$V_D=115V$, Pulse measurement			5	μA
Holding current	I_H	Pulse measurement	100			mA
On-State Voltage	V_T	$I_T=2A$			3	V

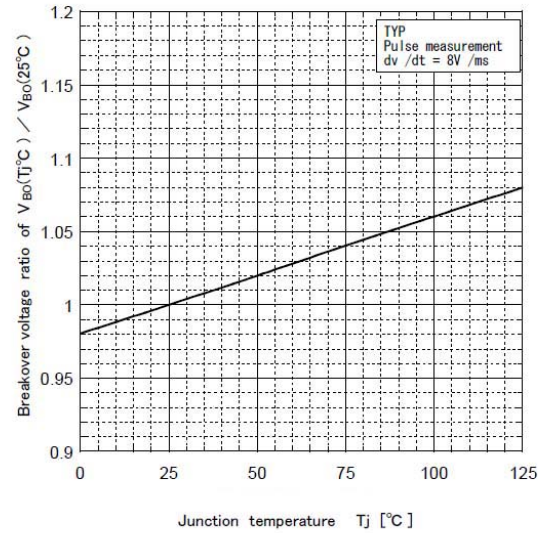
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

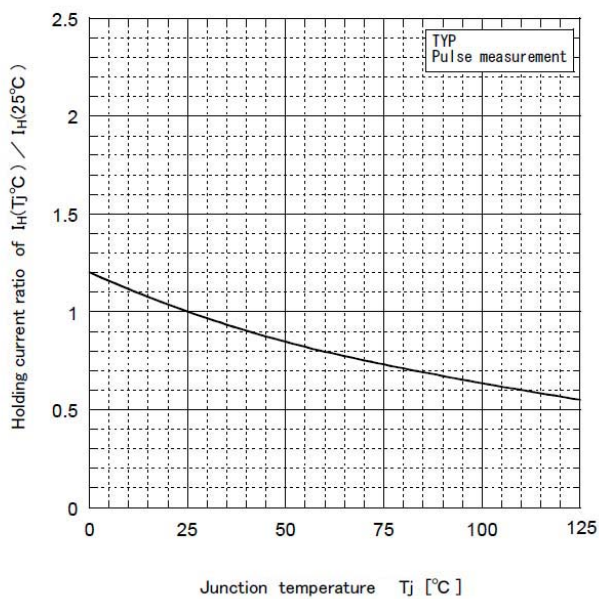
On-state voltage vs On-state current



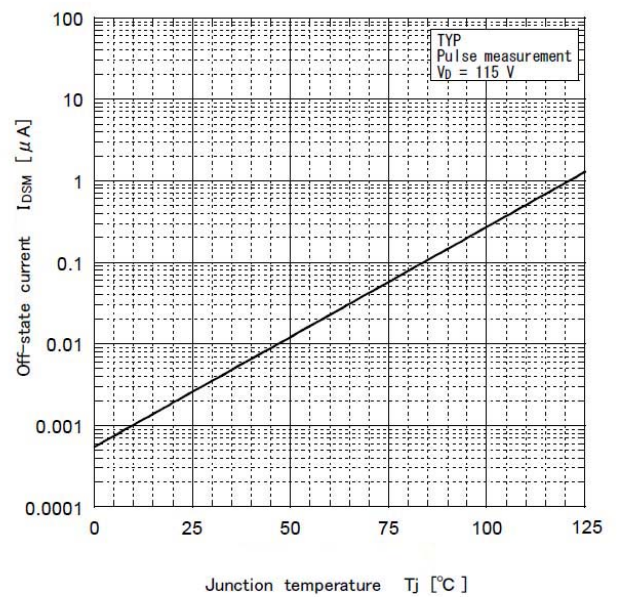
Breakover voltage vs Junction temperature

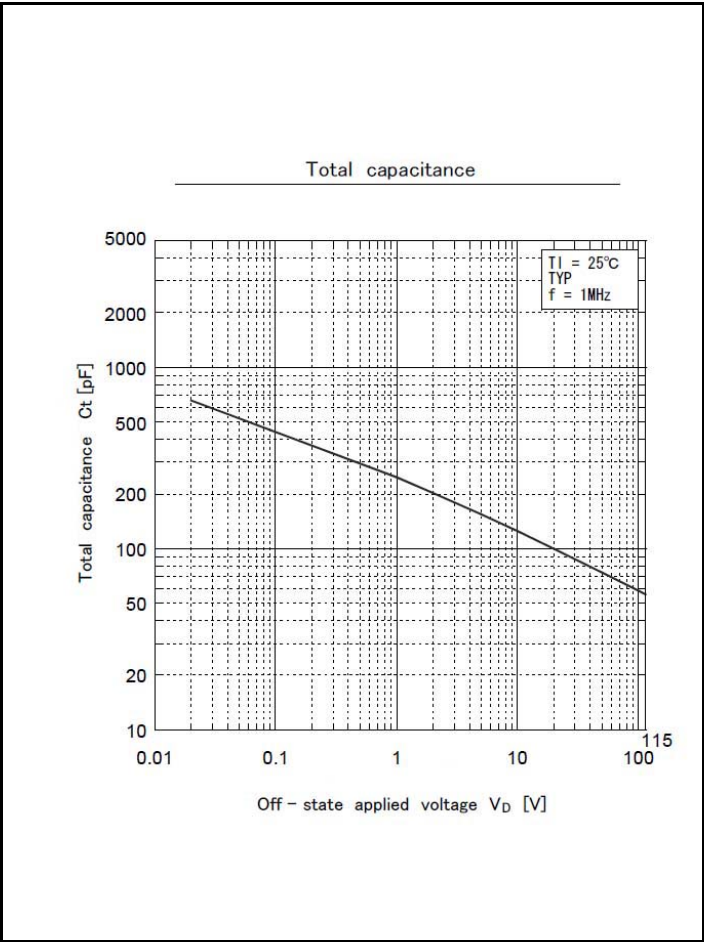
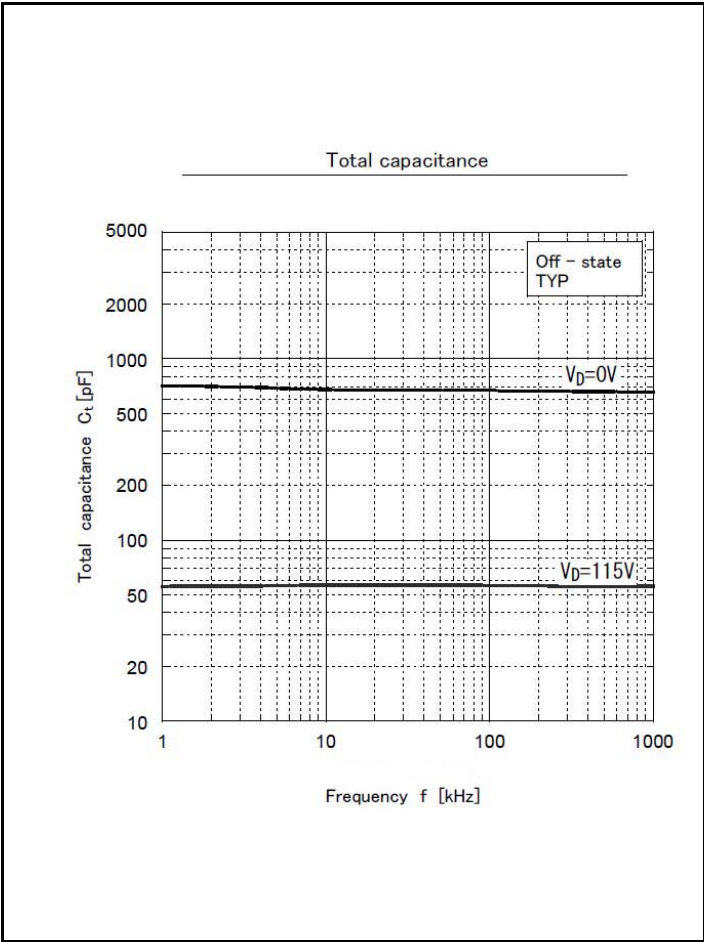


Holding Current vs Junction Temperature



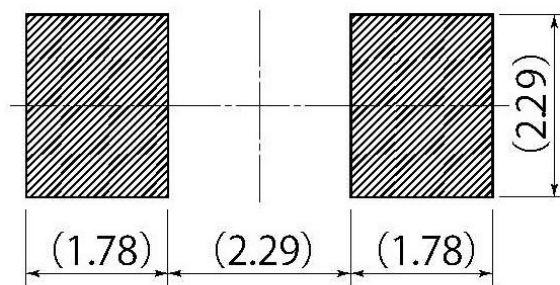
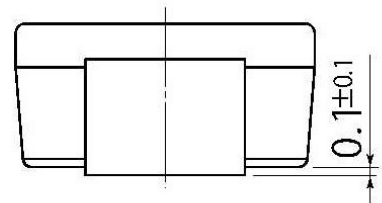
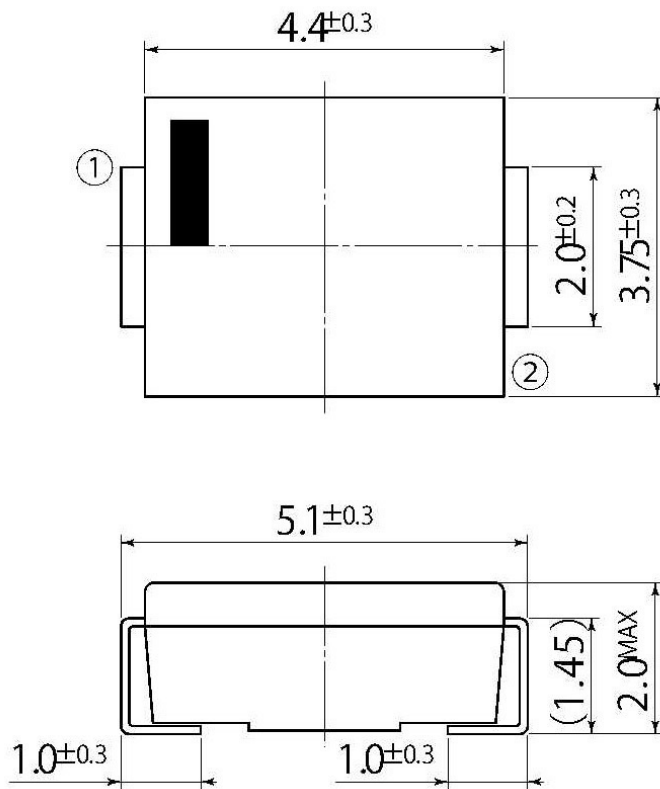
Off-state current vs Junction temperature





B8

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



Referential Soldering Pad

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

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