

# **KU10R29NS**

# **Thyristor Surge Suppressors 250V**, **100A**

### **Feature**

- · Bi-directional characteristic
- · High-speed response characteristic
- · Large surge current capacity
- Capable of repeated use for surges
- UL497B File No.E183905
- · Pb free terminal
- · RoHS:Yes

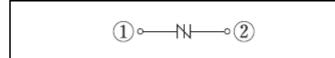
## **OUTLINE**

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		125	°C
Repetitive peak reverse voltage	$V_{DRM}$		250	V
Peak surge on-state current	I <sub>TSM</sub>	10/1000μs, Non-repetitive	100	Α
Peak surge on-state current	I <sub>TSM</sub>	I=5/310μs, V=10/700μs, Non-repetitive	150	Α

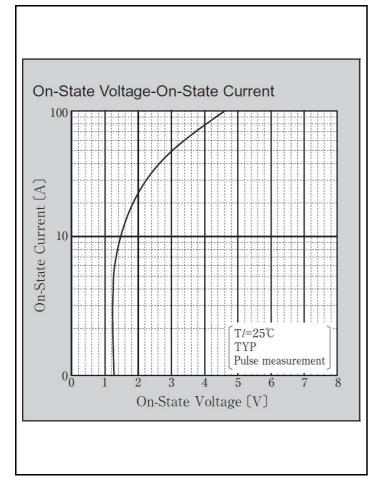
<sup>\* :</sup>See the original Specifications

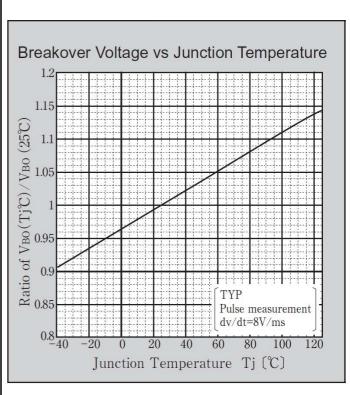
# **Electrical Characteristics** (unless otherwise specified : TI=25°C)

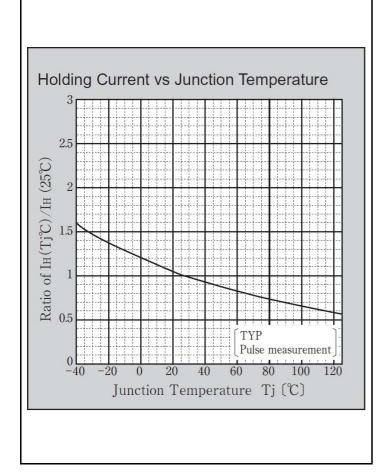
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Breakover voltage	V <sub>BO</sub>	dV/dt=8V/ms	275			V
Clamping voltage	V <sub>CL</sub>	dV/dt=100V/μs			400	V
Off-state current	I <sub>DSM</sub>	VD=250V			5	μΑ
Holding current	l <sub>Η</sub>	Pulse measurement	100			mA
On-State Voltage	V <sub>T</sub>	IT=2A			3	V
Junction capacitance	Cj	f=1MHz, VD=50V			70	pF

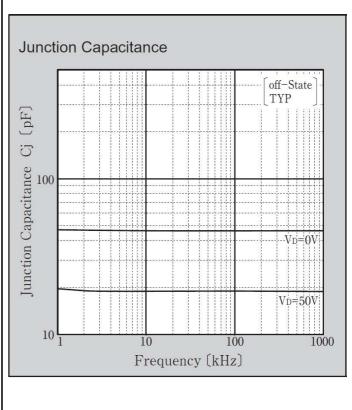
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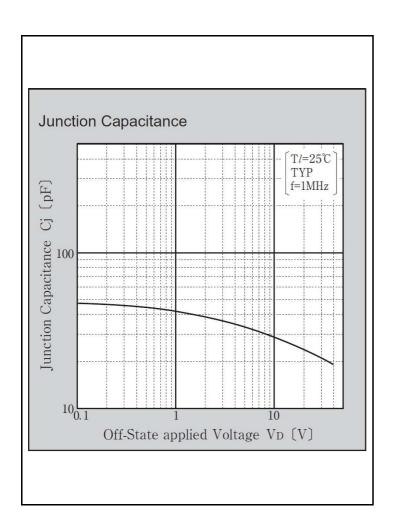
# **CHARACTERISTIC DIAGRAMS**







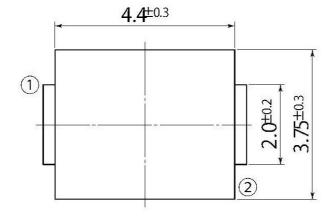


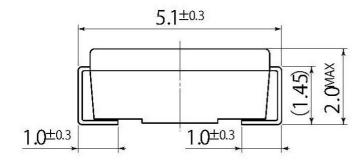


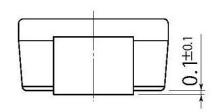
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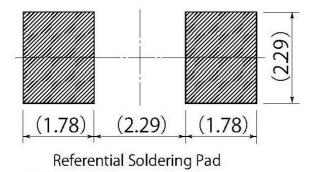
**B7** 

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









<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

## **Notes**

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### (Special applications)

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#### (Specific applications)

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