

# **KU10N14**

# **Thyristor Surge Suppressors** 120V, 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

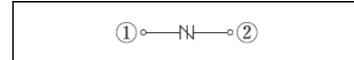
### **OUTLINE**

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 | $V_{DRM}$        |                           | 120        | V    |
| Peak surge on-state current     | I <sub>TSM</sub> | 10/1000μs, Non-repetitive | 100        | Α    |

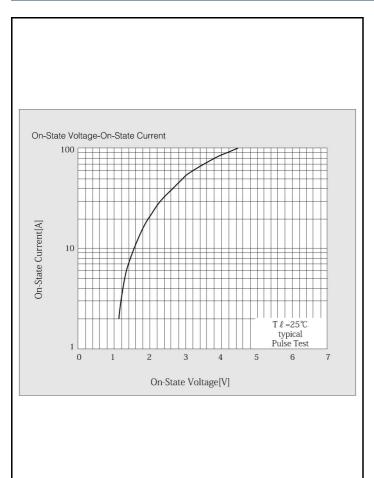
<sup>\* :</sup>See the original Specifications

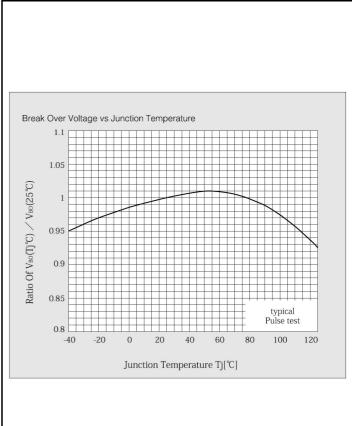
### **Electrical Characteristics** (unless otherwise specified : TI=25°C)

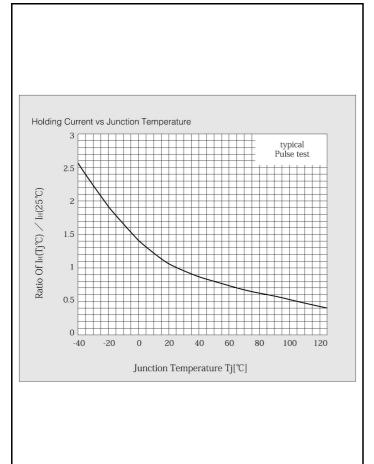
| Item                 | Symbol           | Conditions             | Ratings |     |     | Unit  |
|----------------------|------------------|------------------------|---------|-----|-----|-------|
|                      |                  |                        | MIN     | TYP | MAX | Oilit |
| Breakover voltage    | $V_{BO}$         | dV/dt=8V/ms, Peak hold | 125     |     |     | V     |
| Clamping voltage     | V <sub>CL</sub>  | dV/dt=100V/μs          |         |     | 195 | V     |
| Off-state current    | I <sub>DSM</sub> | VD=120V                |         |     | 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=1kHz, VD=50V         |         |     | 140 | pF    |

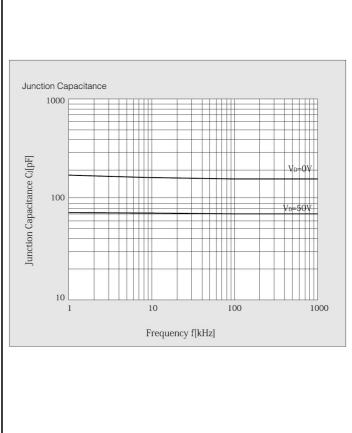
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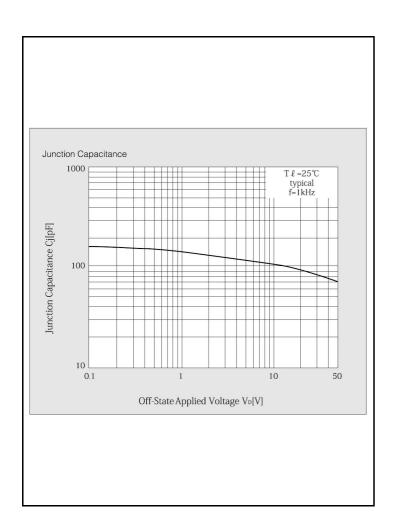
# **CHARACTERISTIC DIAGRAMS**







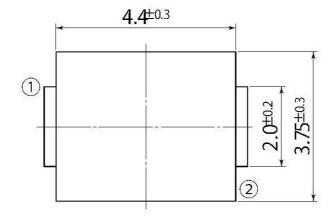


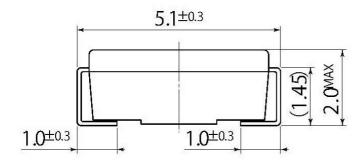


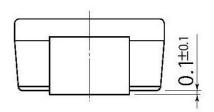
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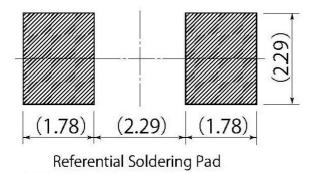
**B7** 

| 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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