

KU10S35NS

Thyristor Surge Suppressors
275V, 100A

Feature

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

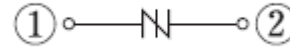
OUTLINE

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 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 | 100 | A |

* :See the original Specifications

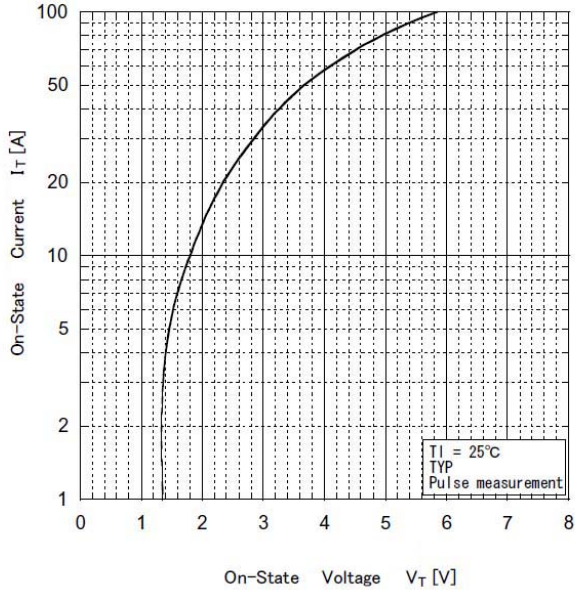
Electrical Characteristics (unless otherwise specified : Tl=25°C)

| Item | Symbol | Conditions | Ratings | | | Unit |
|----------------------|------------------|---------------------------|---------|-----|-----|------|
| | | | MIN | TYP | MAX | |
| Clamping voltage | V _{CL} | dV/dt=100V/μs | | | 450 | V |
| Off-state current | I _{DSM} | VD=275V | | | 5 | μA |
| Holding current | I _H | Pulse measurement | 100 | | | mA |
| On-State Voltage | V _T | IT=2A | | | 3 | V |
| Junction capacitance | C _j | f=1MHz, VD=50V, OSC=1Vrms | | | 90 | pF |

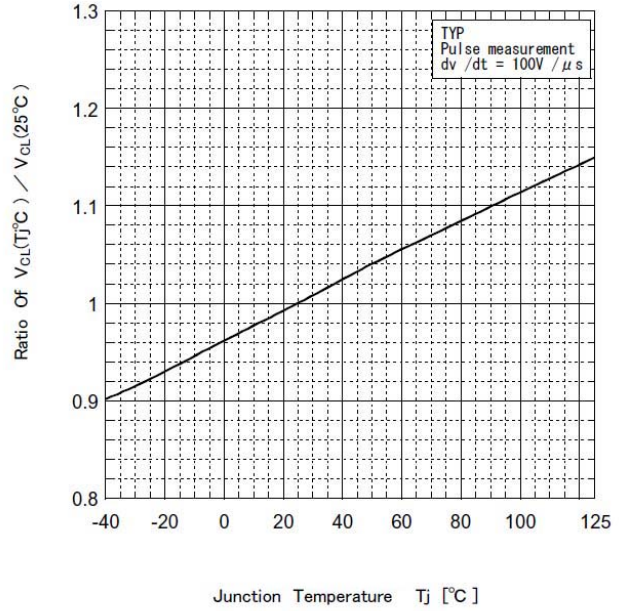
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

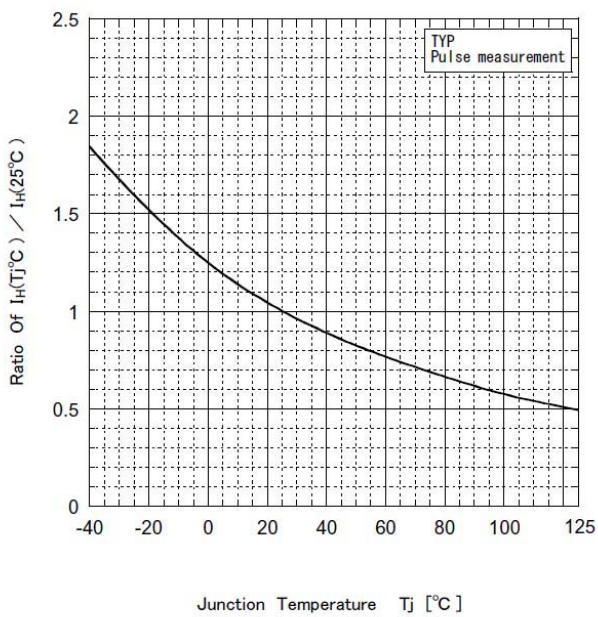
On-State Voltage vs On-State Current



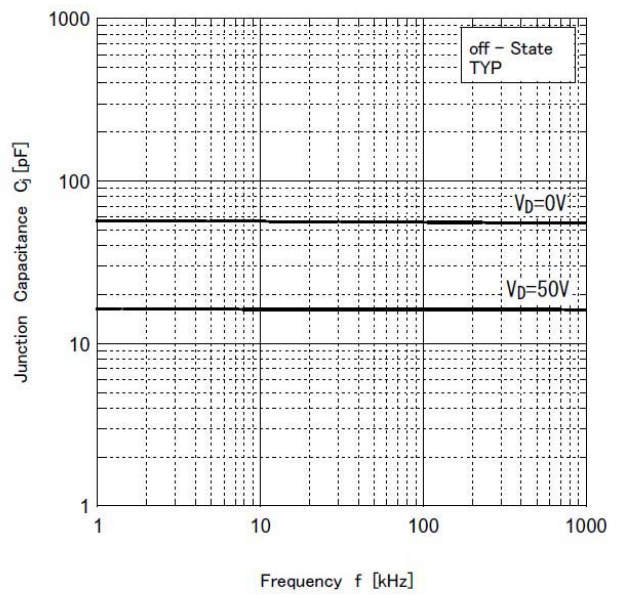
Clamping Voltage vs Junction Temperature

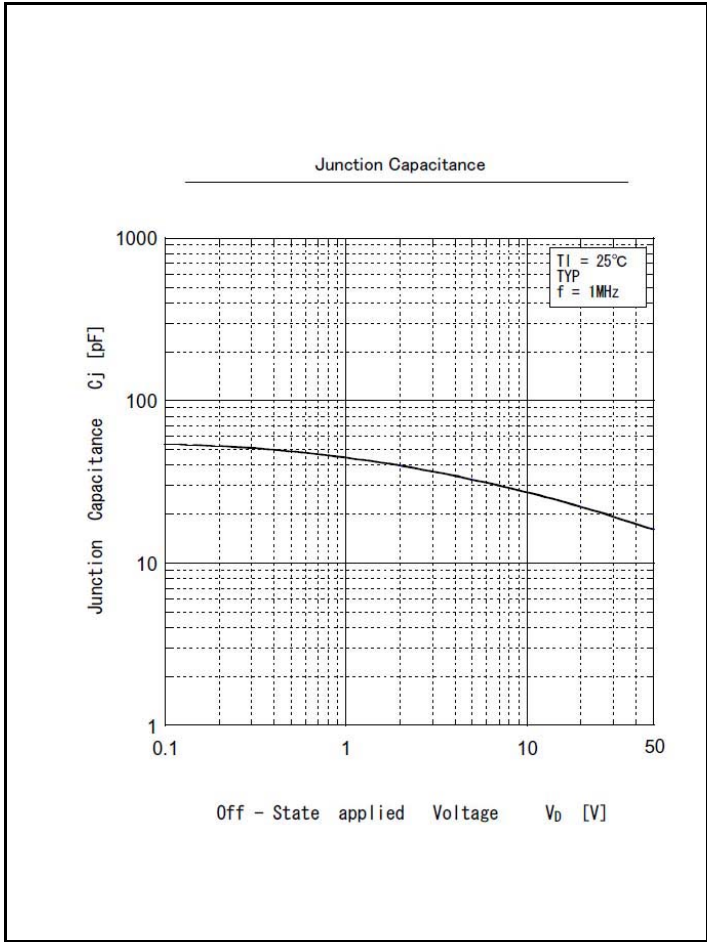


Holding Current vs Junction Temperature



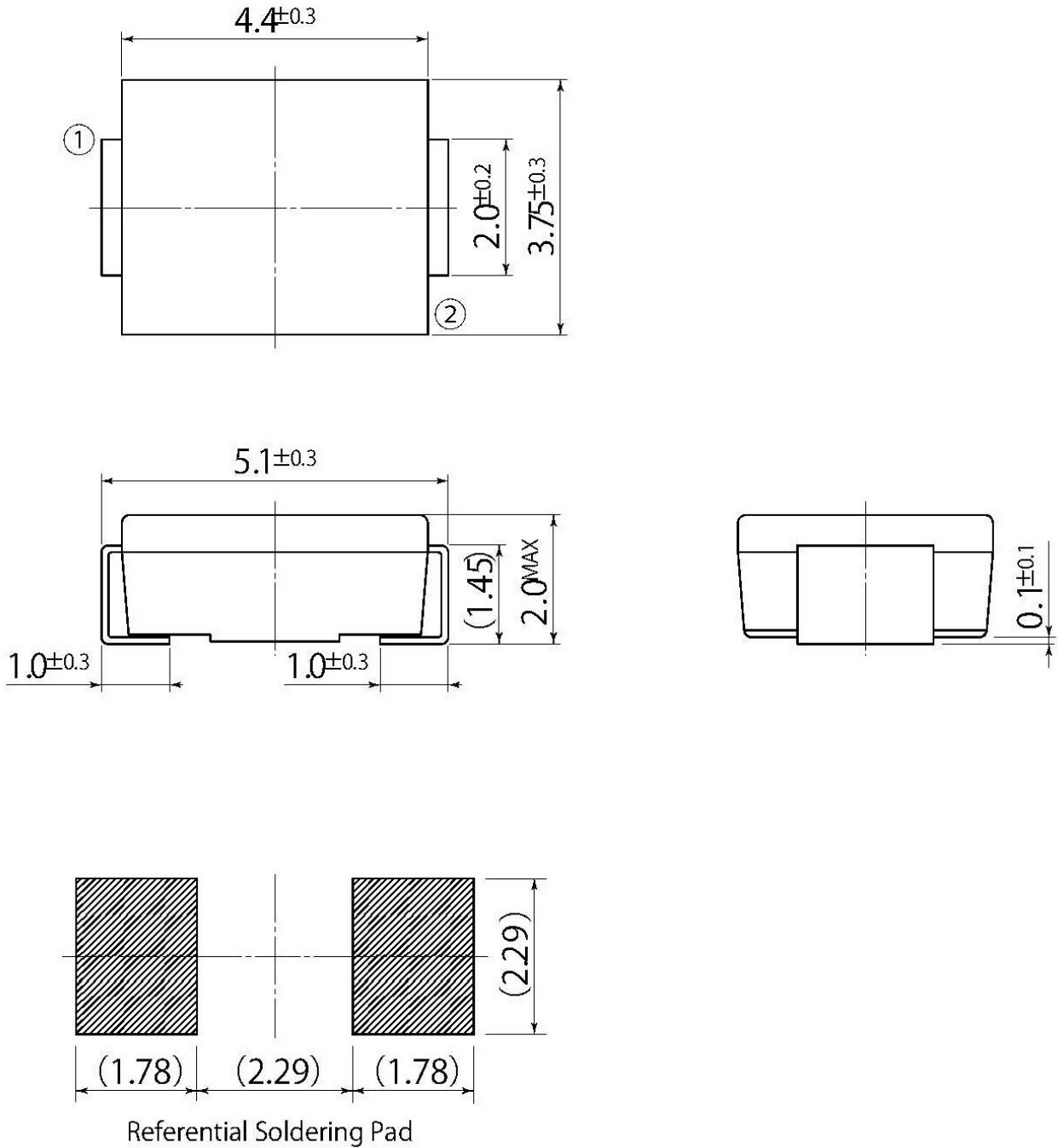
Junction Capacitance





B7

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



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