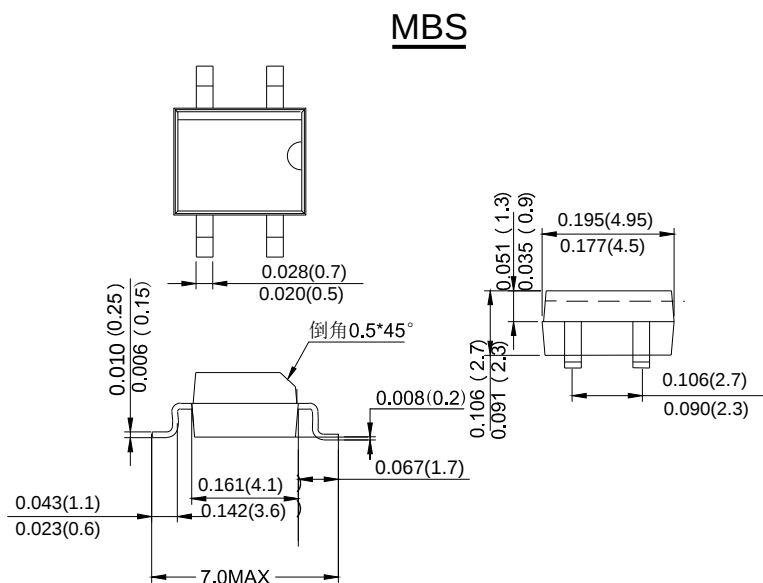


### Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-35A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

### Mechanical Data

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number



dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                                                           | SYMBOL                            | EMB1SU     | EMB2SU | EMB4SU | EMB6SU | UNITS |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|--------|--------|--------|-------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | V <sub>RRM</sub>                  | 100        | 200    | 400    | 600    | V     |
|                                                                                                                       | V <sub>RWM</sub>                  |            |        |        |        |       |
|                                                                                                                       | V <sub>DC</sub>                   |            |        |        |        |       |
| RMS Reverse Voltage                                                                                                   | V <sub>RMS</sub>                  | 70         | 140    | 280    | 420    | V     |
| Average Rectified Output Current (Note 1)@T <sub>A</sub> =40℃                                                         | I <sub>O</sub>                    | 1.0        |        |        |        | A     |
| Non-Repetitive Peak Forward Surge Current 8.3ms<br>Single half sine-wave superimposed on rated load<br>(JEDEC Method) | I <sub>FSM</sub>                  | 35         |        |        |        | A     |
| Forward Voltage per element @IF=1.0A                                                                                  | V <sub>FM</sub>                   | 0.95       |        | 1.25   | 1.7    | V     |
| Peak Reverse Current @T <sub>A</sub> =25℃<br>At Rated DC Blocking Voltage @T <sub>A</sub> =125℃                       | I <sub>R</sub>                    | 5.0<br>500 |        |        |        | uA    |
| Maximum reverse recovery time (Note 2)                                                                                | T <sub>RR</sub>                   | 35         |        |        |        | ns    |
| Typical Junction Capacitance per leg                                                                                  | C <sub>J</sub>                    | 13         |        |        |        | pF    |
| Typical Thermal Resistance per leg (Note 3)                                                                           | R <sub>θJA</sub>                  | 70         |        |        |        | ℃/W   |
|                                                                                                                       | R <sub>θJL</sub>                  | 20         |        |        |        |       |
| Operating and Storage Temperature Range                                                                               | T <sub>J</sub> , T <sub>STG</sub> | -55to+150  |        |        |        | ℃     |

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

2. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.

3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

