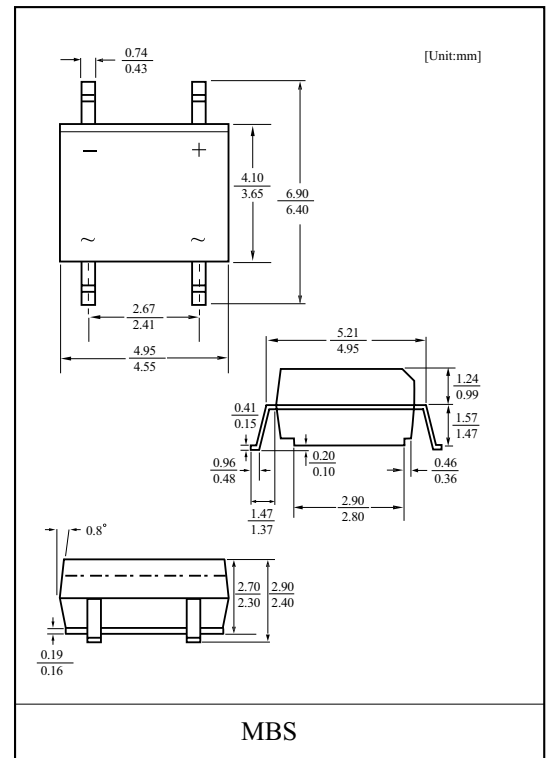


## FEATURES

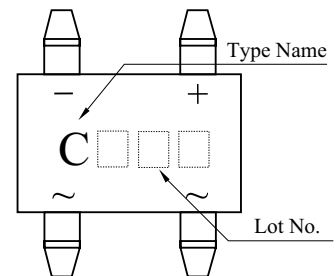
- Plastic package has Underwriters Laboratory flammability Classification 94V-0.
- Glass passivated chip junction.
- High surge overload rating : 35A peak.
- Saves space on printed circuit boards.
- High temperature soldering guaranteed : 260 °C/10 seconds.

## MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                                                                                   | SYMBOL         | RATING                     | UNIT               |
|--------------------------------------------------------------------------------------------------|----------------|----------------------------|--------------------|
| repetitive peak reverse voltage                                                                  | $V_{RRM}$      | 600                        | V                  |
| RMS voltage                                                                                      | $V_{RMS}$      | 420                        | V                  |
| DC blocking voltage                                                                              | $V_{DC}$       | 600                        | V                  |
| Average forward output rectified current (see Fig.1) On glass-epoxy P.C.B on aluminum substrate. | $I_{F(AV)}$    | 0.5 (Note1)<br>0.8 (Note2) | A                  |
| Peak forward surge current                                                                       | $I_{FSM}$      | 35.0                       | A                  |
| Rating for fusing (t<8.3ms)                                                                      | $I^2t$         | 5.0                        | A <sup>2</sup> sec |
| Operating Junction and Storage Temperature Range                                                 | $T_j, T_{stg}$ | -55~150                    | °C                 |



## Marking



## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC             | SYMBOL                 | CONDITION            | MIN | TYP | MAX | UNIT    |
|----------------------------|------------------------|----------------------|-----|-----|-----|---------|
| Forward voltage            | $V_F$                  | $I_F=0.4A$           | -   | -   | 1.0 | V       |
| Leakage current            | $I_R$                  | $V_R=600V$           | -   | -   | 5.0 | $\mu A$ |
|                            |                        |                      | -   | -   | 100 |         |
| Junction capacitance       | $C_j$                  | $V_R=4.0V, f=1.0MHz$ | -   | 13  | -   | pF      |
| Typical thermal resistance | $R_{th(A)}$<br>(Note1) | Junction to ambient  | -   | -   | 85  | °C/W    |
|                            | $R_{th(A)}$<br>(Note2) |                      |     |     | 70  |         |
|                            | $R_{th(L)}$<br>(Note1) | Junction to lead     | -   | -   | 20  |         |

Note 1) on glass epoxy P.C.B mounted on 0.05 × 0.05" (1.3 × 1.3mm) Pads.

Note 2) on aluminum substrate P.C.B with an area of 0.8 × 0.8" (20 × 20mm) mounted on 0.05 × 0.05" (1.3 × 1.3mm) solder pad.

Fig.1 Derating Curve for Output Rectified Current

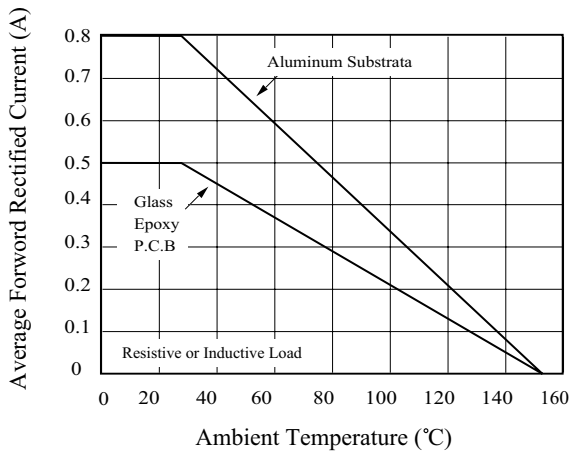


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Leg

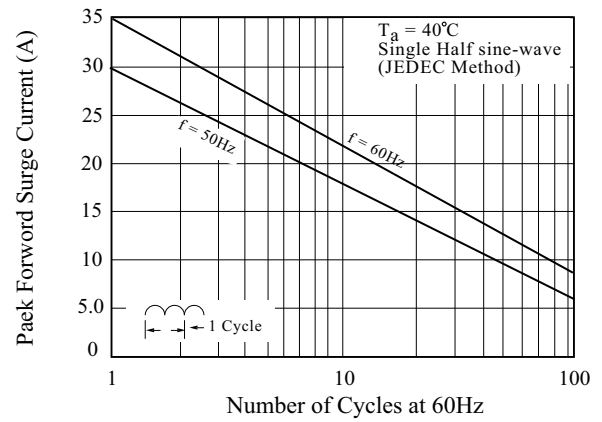


Fig.3 Typical Forward Characteristics Per Leg

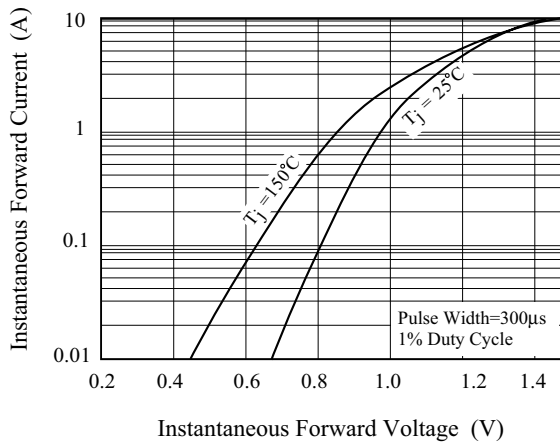


Fig.4 Typical Reverse Leakage Characteristics Per Leg

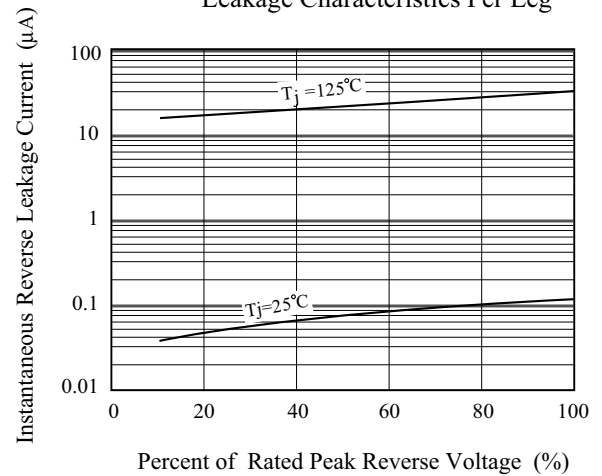


Fig.5 Typical Junction Capacitance Per Leg

