

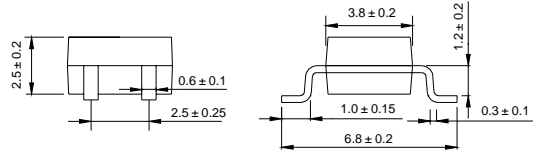
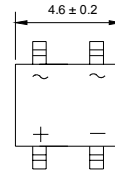
MBS

Features

- ◇ I_o 1.0A
- ◇ V_{RRM} 20V~100V
- ◇ Schottky chip
- ◇ High surge forward current capability
- ◇ Low VF

Applications

- ◇ General purpose 1 phase Bridge
- ◇ rectifier applications



Dimensions in millimeters

Limiting Values (Absolute Maximum Rating)

| Item | Symbol | Unit | Conditions | MB | | | | | |
|--------------------------------------|-----------|------------------|---|--------------------------|-----|-----|-----|------|--|
| | | | | 12S | 14S | 16S | 18S | 110S | |
| Repetitive Peak Reverse Voltage | V_{RRM} | V | | 20 | 40 | 60 | 80 | 100 | |
| Average Rectified Output Current | I_o | A | 60Hz sine wave, R-load, $T_a=25^\circ\text{C}$ | On alumina substrate | 1.0 | | | | |
| | | | | On glass-epoxi substrate | 0.8 | | | | |
| Surge(Non-repetitive)Forward Current | I_{FSM} | A | 60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$ | | 40 | | | | |
| Current Squared Time | I^2t | A^2S | $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode | | 6.6 | | | | |
| Storage Temperature | T_{stg} | $^\circ\text{C}$ | -55 ~+150 | | | | | | |
| Junction Temperature | T_j | $^\circ\text{C}$ | -55 ~+150 | | | | | | |

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| Item | Symbol | Unit | Test Condition | Max | | |
|----------------------|------------------|--------------------|---|------|------|------|
| Peak Forward Voltage | V_{FM} | V | $I_{FM}=0.5A$, Pulse measurement, Rating of per diode | 0.55 | 0.65 | 0.85 |
| Peak Reverse Current | I_{RRM} | mA | $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode | 0.5 | | |
| Thermal Resistance | $R_{\theta J-A}$ | $^\circ\text{C/W}$ | Between junction and ambient, On alumina substrate | 76 | | |
| | | | Between junction and ambient, On glass-epoxi substrate | 134 | | |
| | $R_{\theta J-L}$ | | Between junction and lead | 20 | | |

Characteristics(Typical)

FIG1:Io-Ta Curve

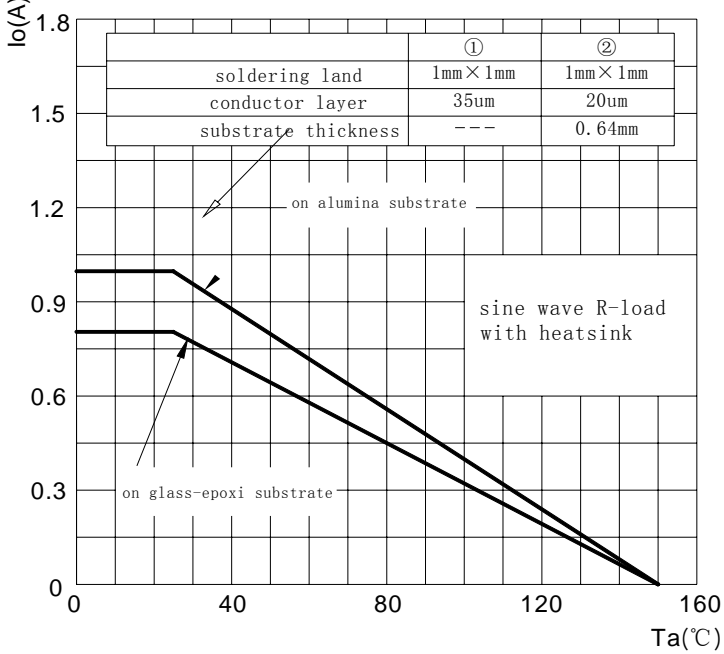


FIG2:Surge Forward Current Capacity

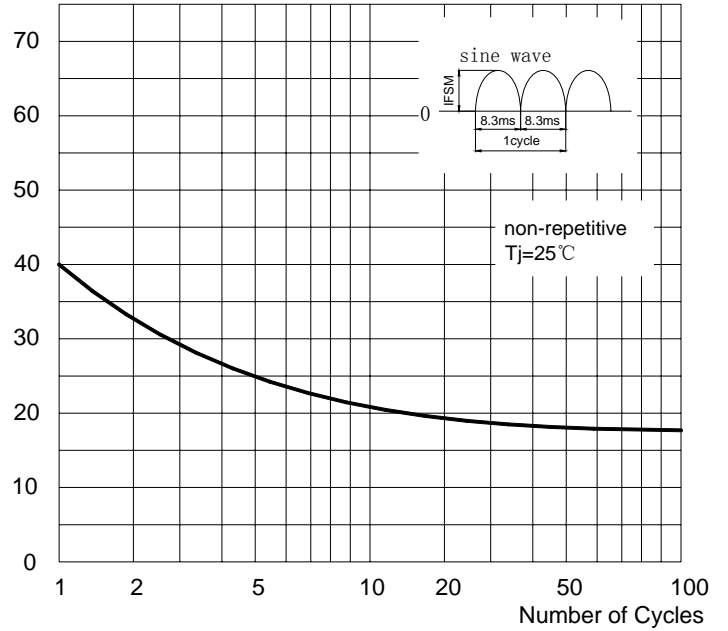


FIG3: Forward Voltage

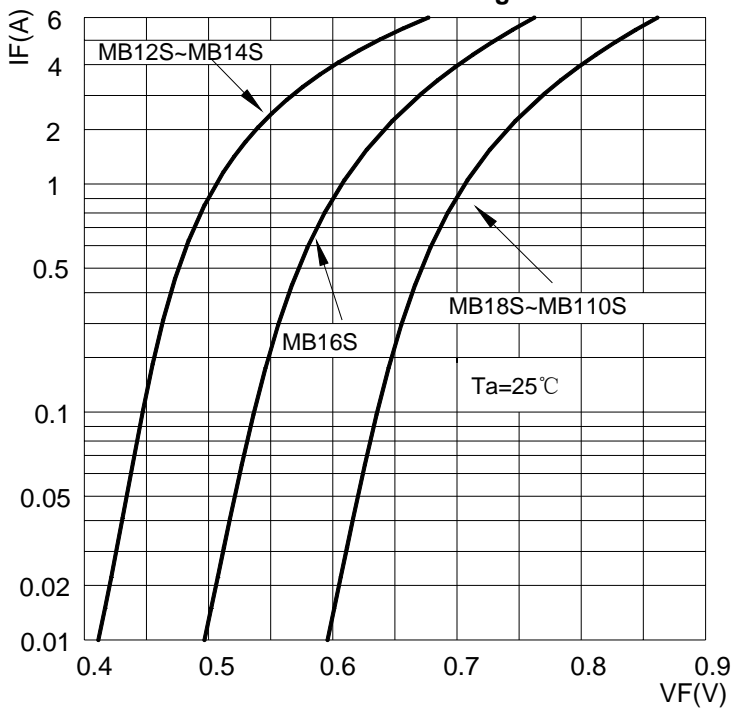
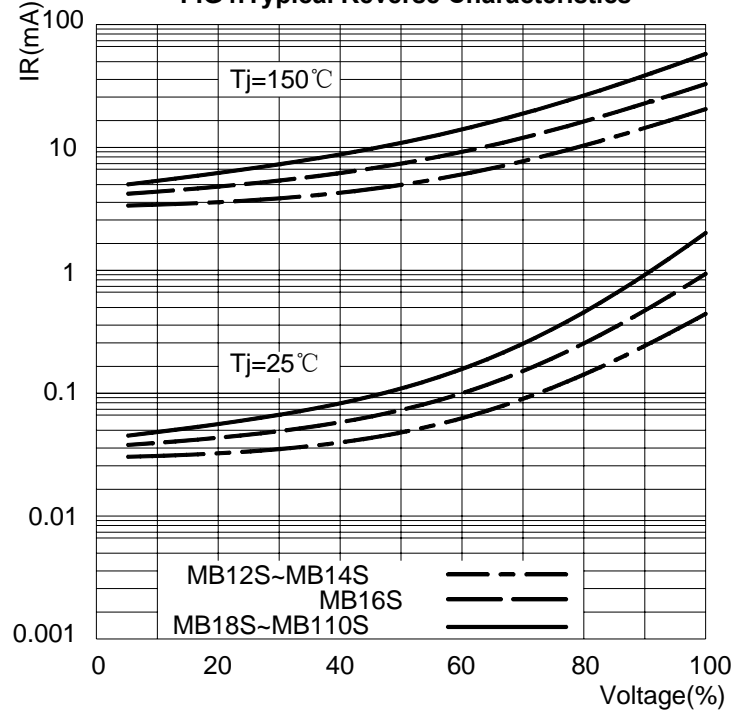


FIG4:Typical Reverse Characteristics



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