

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

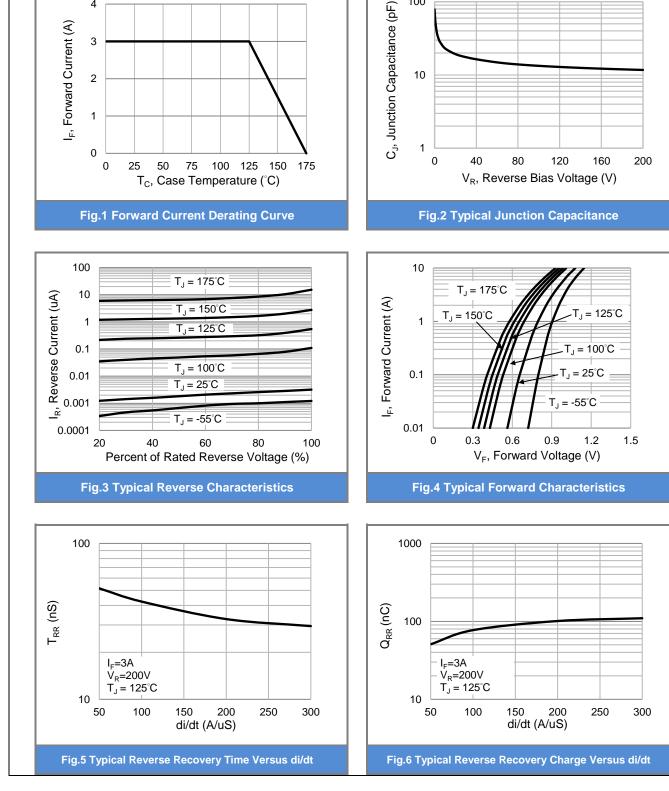
| PARAMETER | SYMBOL | LIMIT | UNITS | |
|--|-----------------|------------------|---------|------|
| Maximum Repetitive Peak Reverse Voltage | | V _{RRM} | 200 | V |
| Maximum RMS Voltage | Vrms | 140 | V | |
| Maximum DC Blocking Voltage | V _{DC} | 200 | V | |
| Maximum Average Forward Current | IF(AV) | 3 | А | |
| Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load | | IFSM | 75 | А |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$ | | CJ | 31 | pF |
| | (Note 1) | Reja | 135 | |
| Typical Thermal Resistance | (Note 2) | Rejc | 14 | °C/W |
| | (Note 2) | Rejl | 17 | |
| Operating Junction Temperature Range | | TJ | -55~175 | ۰C |
| Storage Temperature Range | | Тѕтс | -55~175 | °C |



| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS | |
|-------------------------|------------------|---|------|------|------|-------|--|
| Forward Voltage | VF | I _F = 1 A, T _J = 25 °C | - | 0.79 | - | V | |
| | | I _F = 2 A, T _J = 25 °C | - | 0.85 | - | V | |
| | | I _F = 3 A, T _J = 25 °C | - | - | 0.95 | V | |
| | | I _F = 1 A, T _J = 125 °C | - | 0.65 | - | V | |
| | | I _F = 2 A, T _J = 125 °C | - | 0.73 | - | V | |
| | | I _F = 3 A, T _J = 125 °C | - | 0.78 | - | V | |
| Reverse Current | I _R | V _R = 160 V, T _J = 25 °C | - | 3 | - | nA | |
| | | $V_R = 200 V, T_J = 25 \circ C$ | - | - | 1 | | |
| | | V _R = 200 V, T _J = 125 °C | - | - | 50 | uA | |
| Reverse Recovery Time | T _{RR} | I _F = 0.5 A, I _R = 1 A, I _{RR} = 0.25 A, T _J = 25 °C | - | - | 35 | ns | |
| Reverse Recovery Time | T _{RR} | $I_F = 3 \text{ A}, V_R = 200 \text{ V}$ | - | 20 | - | ns | |
| Peak Recovery Current | I _{RRM} | di/dt = 300 A/uS | - | 4.6 | - | А | |
| Reverse Recovery Charge | Q _{RR} | T _J = 25 °C | - | 52 | - | nC | |
| Reverse Recovery Time | T _{RR} | I _F = 3 A, V _R = 200 V | - | 30 | - | ns | |
| Peak Recovery Current | I _{RRM} | di/dt = 300A/uS | - | 6.9 | - | А | |
| Reverse Recovery Charge | Q _{RR} | T _J = 125 °C | - | 110 | - | nC | |

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.



100

MER3DMB-AU

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TYPICAL CHARACTERISTIC CURVES

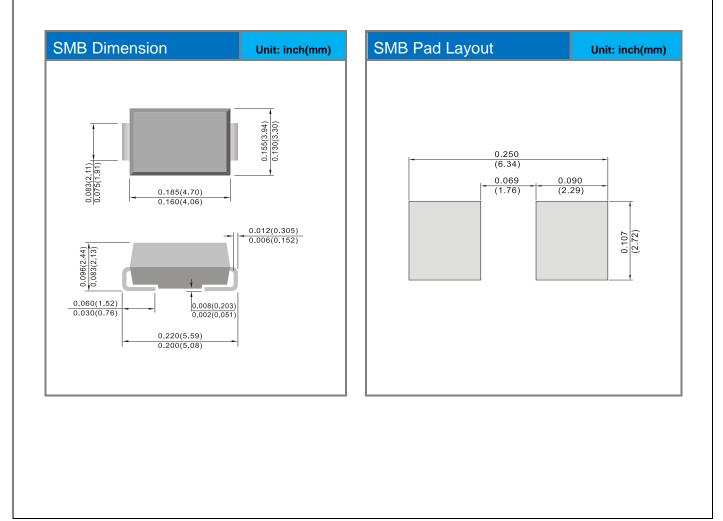
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Part No. Packing Code Version

| Part No. Packing Code | Package Type | Packing Type | Marking | Version |
|-----------------------|--------------|-------------------|---------|--------------------------------|
| MER3DMB-AU_R2_006A1 | SMB | 3K pcs / 13" reel | MER3DB | Halogen free RoHS compliant |

Packaging Information & Mounting Pad Layout





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