

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

| PARAMETER | | SYMBOL | LIMIT | UNITS | |
|--|----------|------------------|---------|-------|--|
| Maximum Recurrent Peak Reverse Voltage | | V _{RRM} | 150 | V | |
| Maximum RMS Voltage | | V _{RMS} | 105 | V | |
| Maximum DC Blocking Voltage | | VDC | 150 | V | |
| Maximum Average Forward Rectified Current | | IF(AV) | 5 | А | |
| Peak Forward Surge Current : 8.3 ms single half sine- wave superimposed on rated load | | IFSM | 150 | А | |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$ | | С | 130 | pF | |
| | (Note 1) | R _{0JA} | 65 | | |
| Typical Thermal Resistance | (Note 2) | R _{θJC} | 18 | °C/W | |
| | (Note 2) | R _{θJL} | 14 | | |
| Operating Junction Temperature Range | | TJ | -55~175 | ٥C | |
| Storage Temperature Range | | Тѕтс | -55~175 | ٥C | |





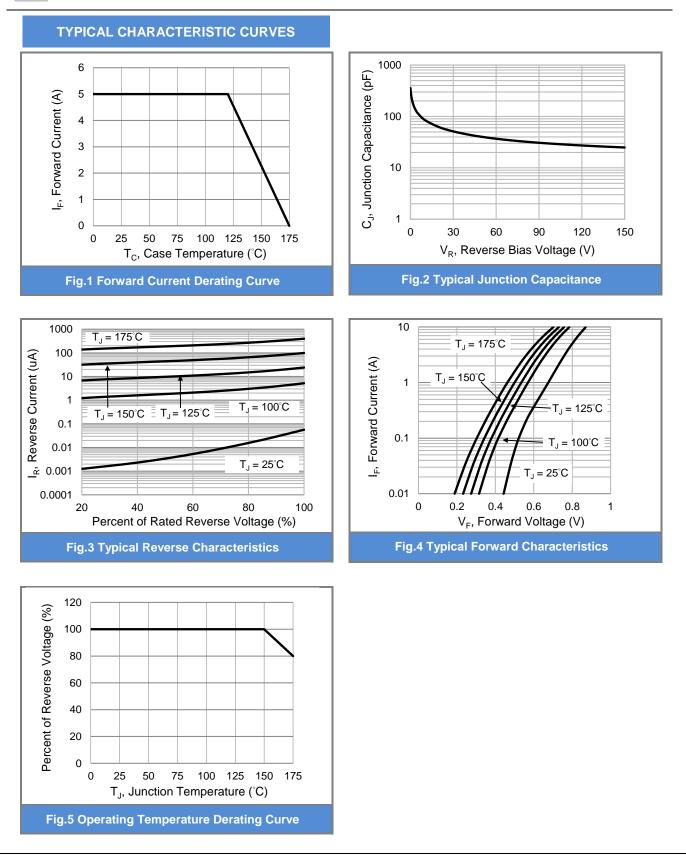
Electrical Characteristics (T_A = 25 °C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-----------------|----------------|---|------|------|------|-------|
| Forward Voltage | VF | $I_F = 1 \text{ A}, T_J = 25 \text{ °C}$ | - | 0.68 | - | V |
| | | I _F = 3 A, T _J = 25 °C | - | 0.76 | - | |
| | | I _F = 5 A, T _J = 25 °C | - | - | 0.85 | |
| | | I _F = 1 A, T _J = 125 °C | - | 0.54 | - | |
| | | I _F = 3 A, T _J = 125 °C | - | 0.63 | - | |
| | | I _F = 5 A, T _J = 125 °C | - | 0.67 | - | |
| Reverse Current | I _R | V _R = 120 V, T _J = 25 °C | - | 16 | - | nA |
| | | V _R = 150 V, T _J = 25 °C | - | - | 0.5 | uA |
| | | V _R = 150 V, T _J = 125 °C | - | - | 130 | |

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.







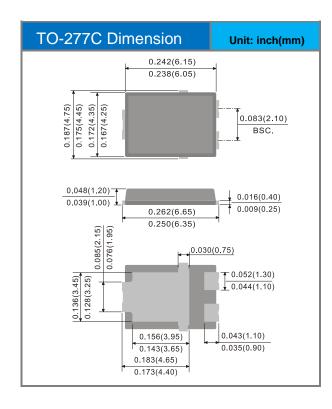


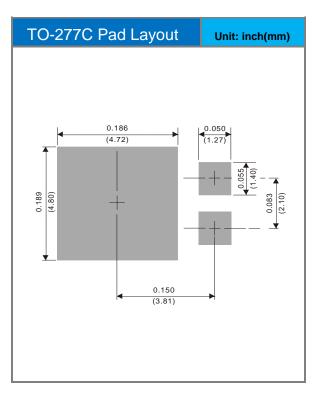


Product and Packing Information

| Part No. | Package Type | Packing Type | Marking |
|------------|--------------|-------------------|------------|
| MBR5H150PC | TO-277C | 5K pcs / 13" reel | MBR5H150PC |

Packaging Information & Mounting Pad Layout







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