

MBR10150ULPS

10 Amp Low VF Schottky Barrier Rectifier 150 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Extremely low forward voltage drop
- Super long operating life
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

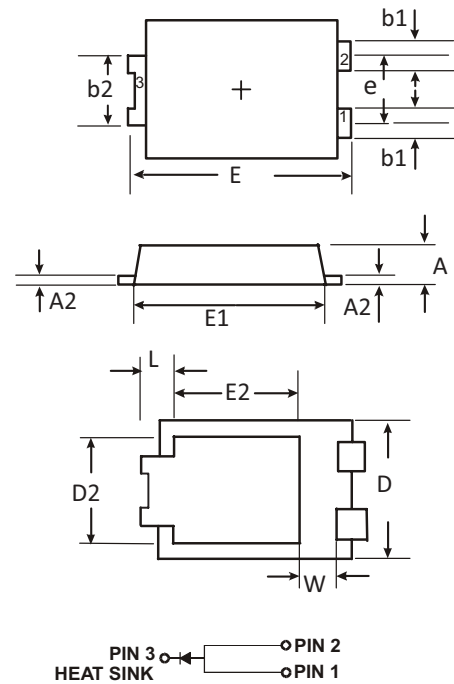
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|---------------------|--|---------------------|-----------------------------|
| MBR10150ULPS | 10150U/ ST10150L | 150V | 105V | 150V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 10A | $T_c = 125^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 180A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 0.77V(Typ.) 0.84V(max) | $I_F=10A T_J = 25^\circ\text{C}$ $I_F=10A T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 20uA (max) 3uA (typ.) | $T_J = 25^\circ\text{C}$ |
| Maximum thermal Resistance | R_{thJA} | 100 | $^\circ\text{C/W}$ |

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

TO-277B



| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .039 | .047 | 1.00 | 1.20 | |
| A2 | .006 | .017 | 0.15 | 0.43 | |
| b1 | .030 | .041 | 0.75 | 1.05 | |
| b2 | .065 | .077 | 1.65 | 1.95 | |
| D | .148 | .169 | 3.75 | 4.30 | |
| D2 | .110 | .126 | 2.80 | 3.20 | |
| E | .250 | .264 | 6.35 | 6.70 | |
| e | .065 | .077 | 1.65 | 1.95 | |
| E1 | .207 | .228 | 5.25 | 5.80 | |
| E2 | .120 | .142 | 3.05 | 3.60 | |
| L | .028 | .051 | 0.70 | 1.30 | |
| W | .031 | .056 | 0.80 | 1.42 | |

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RATING AND CHARACTERISTIC CUEVES

Fig.1 - Forward Current Derating Curve

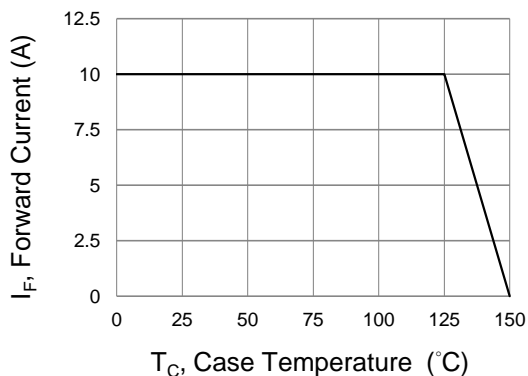


Fig. 2 - Instantaneous Forward Characteristics

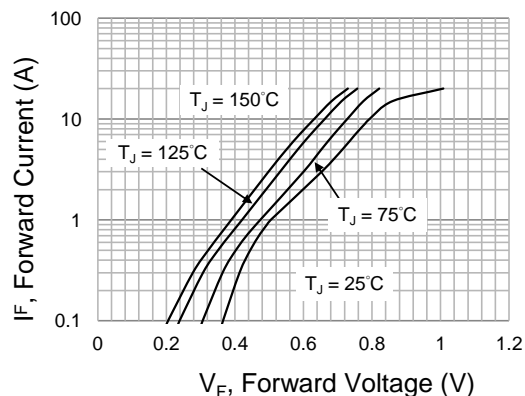
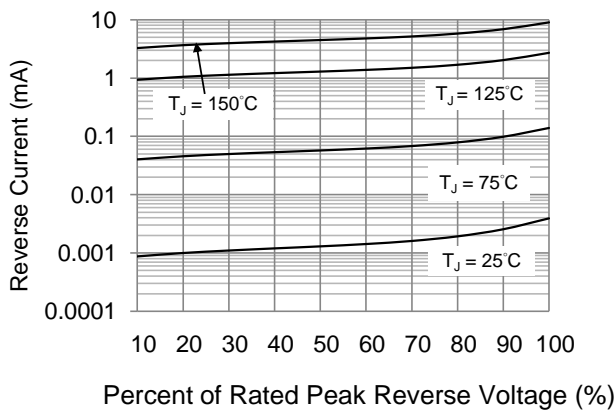


Fig. 3 - Reverse Characteristics





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Ordering Information

| | |
|------------------|-----------------------|
| Device | Packing |
| (Part Number)-TP | Tape&Reel: 5Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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