



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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MBR10U60

10 Amp Schottky Barrier Rectifier 60 Volts

Features

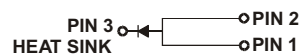
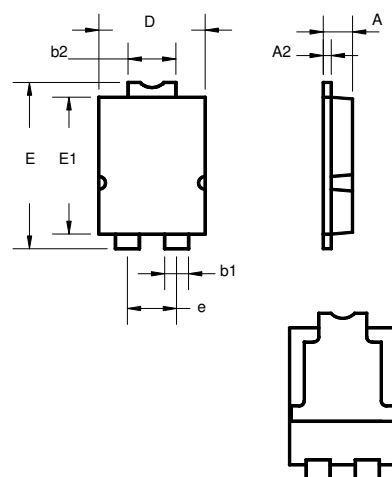
- Halogen free available upon request by adding suffix "-HF"
- High surge Forward current capability
- Low Power loss, High efficiency
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature:-55°C to +150°C
- Storage Temperature:-55°C to +150°C

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MBR10U60 | 10U60 | 60V | 42V | 60V |

TO-277



Electrical Characteristics @25°C Unless Otherwise Specified

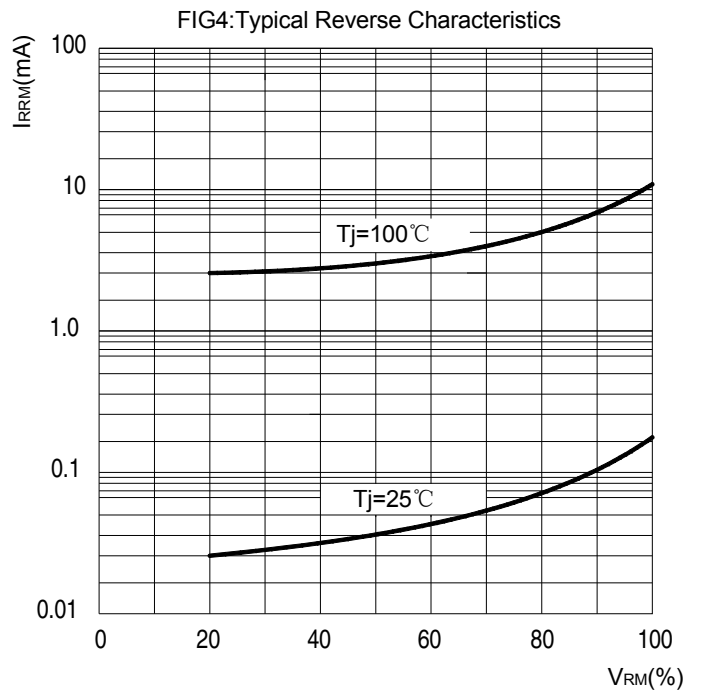
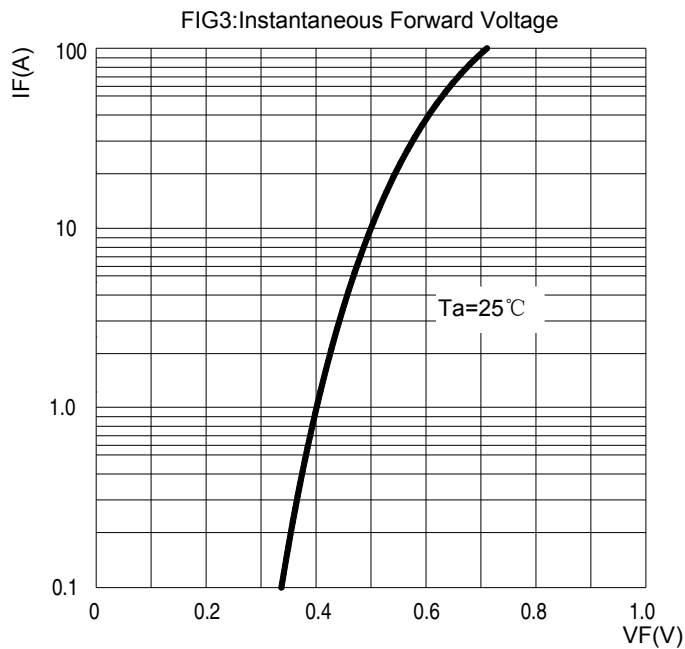
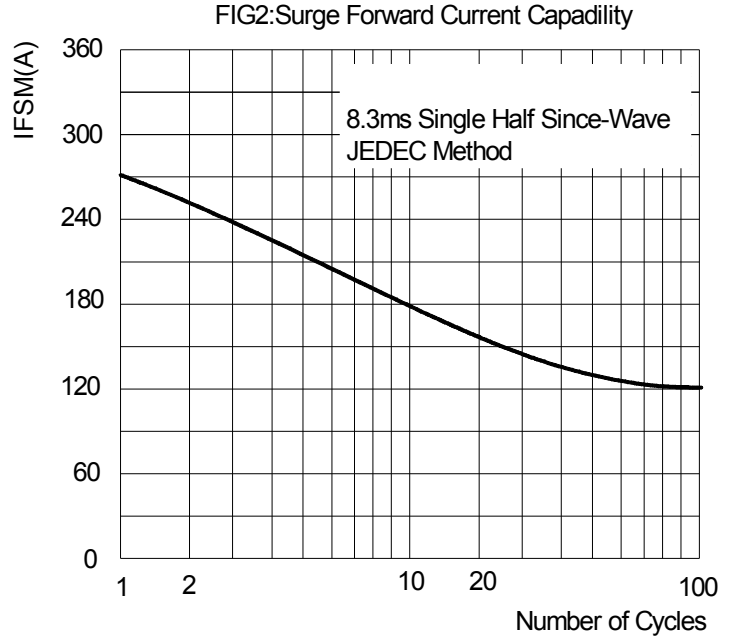
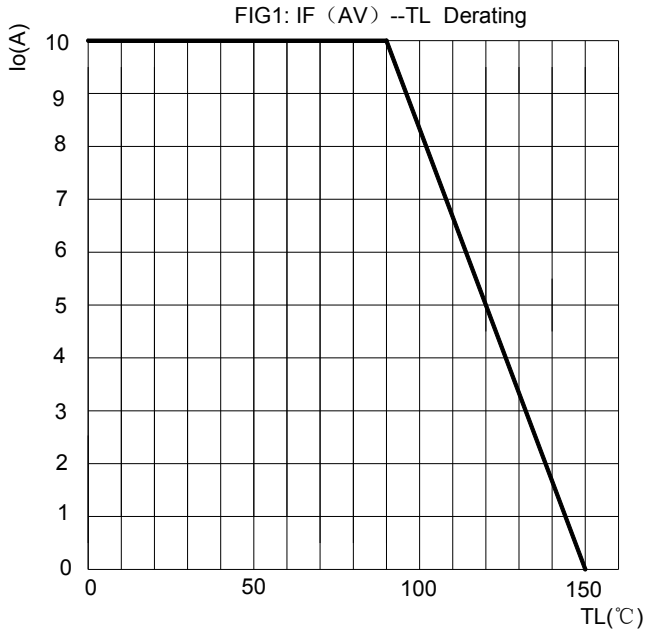
| | | | | | | |
|----------------------------|-----------------|----------------------|-------|-------|---|--|
| Average Forward Current | $I_{F(AV)}$ | 10A | | | $T_L = 90^\circ\text{C}$ | |
| Peak Forward Surge Current | I_{FSM} | 275A | | | 8.3ms, half sine | |
| Forward Voltage | V_F | Min. | Typ. | Max. | $I_F=10\text{A}$ $T_J=25^\circ\text{C}$ | |
| | | --- | 0.44V | 0.50V | $I_F=10\text{A}$ $T_J=125^\circ\text{C}$ | |
| Reverse Current | I_R | --- | --- | 0.5mA | $V_R=50$ $T_J=25^\circ\text{C}$ | |
| | | --- | --- | 100mA | $V_R=50$ $T_J=125^\circ\text{C}$ | |
| Reverse Breakdown Voltage | V_{BR} | 60V | --- | --- | $I_R=0.5\text{mA}$ | |
| Current Squared Time | I^2t | 313 A ² s | | | $1\text{ms} \leq t < 8.3\text{ms}$ $T_J=25^\circ\text{C}$ | |
| Maximum thermal Resistance | $R_{\theta JC}$ | 8.0 °C/W | | | | |

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

| DIMENSIONS | | | | | |
|------------|--------|------|------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | .041 | .045 | 1.05 | 1.15 | |
| A2 | .010 | .014 | 0.25 | 0.35 | |
| b1 | .031 | .039 | 0.80 | 1.00 | |
| b2 | .067 | .075 | 1.70 | 1.90 | |
| D | .154 | .161 | 3.90 | 4.10 | |
| E | .252 | .260 | 6.40 | 6.60 | |
| E1 | .205 | .215 | 5.20 | 5.40 | |
| e | .071 | .075 | 1.80 | 1.90 | |

MBR10U60

Characteristics(Typical)



Ordering Information

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 4Kpcs/Reel |

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

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