



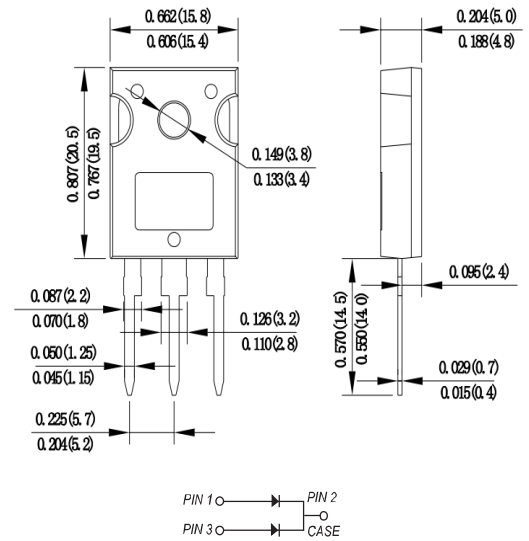
MBR6040PTS-MBR60200PTS

Surface Mount Schottky Rectifiers

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed
250°C/10 seconds at terminals

TO-247S



Dimensions in inches and (millimeters)

Mechanical Data

Case : Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Parameter | SYMBOLS | MBR 6040PTS | MBR 6045PTS | MBR 6060PTS | MBR 60100PTS | MBR 60150PTS | MBR 60200PTS | UNITS | |
|--|------------|--------------|-------------|-------------|--------------|--------------|--------------|-------|------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 40 | 45 | 60 | 100 | 150 | 200 | V | |
| Maximum RMS voltage | V_{RMS} | 28 | 31.5 | 42 | 70 | 105 | 140 | V | |
| Maximum DC blocking voltage | V_{DC} | 40 | 45 | 60 | 100 | 150 | 200 | V | |
| Maximum average forward rectified current at $T_c=110^\circ\text{C}$ per device per diode | $I_{(AV)}$ | 60.0 30.0 | | | | | | | A |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 350.0 | | | | | | | A |
| Maximum instantaneous forward voltage per diode at 30.0A | V_F | 0.65 | | 0.75 | 0.85 | | 0.95 | V | |
| Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$ | I_R | | 0.5 50 | | | 0.05 10 | | mA | |
| Typical thermal resistance | R_{qjc} | 1.5 | | | | | | | °C/W |
| Operating junction temperature range | T_J | -55 to +150 | | | | | | | °C |
| Storage temperature range | T_{STG} | -55 to +150 | | | | | | | °C |



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Characteristic Curves ($T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

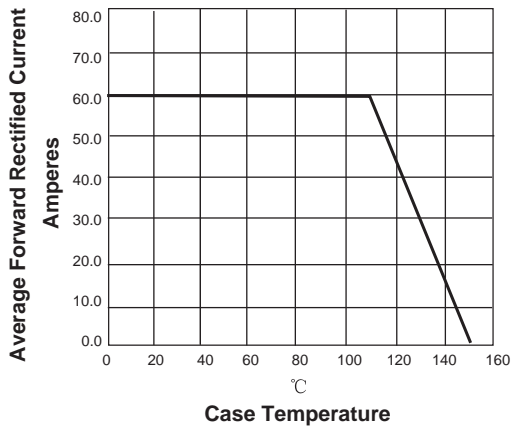


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

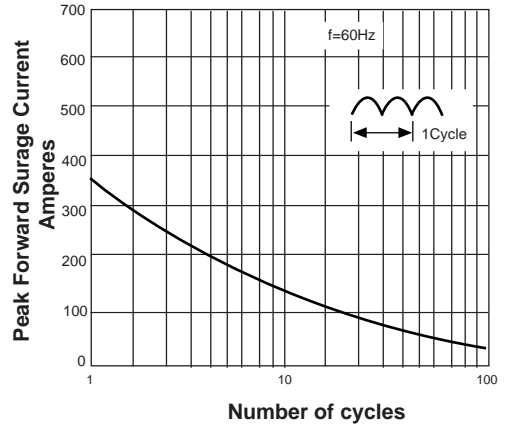


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

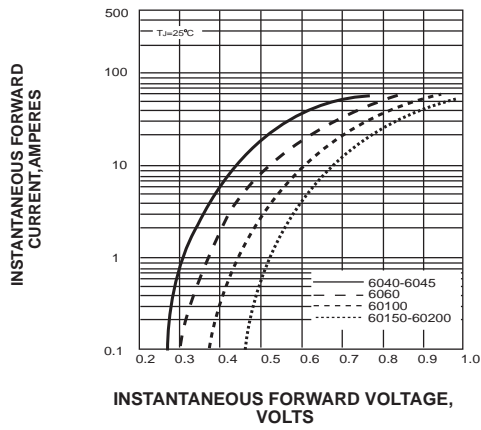
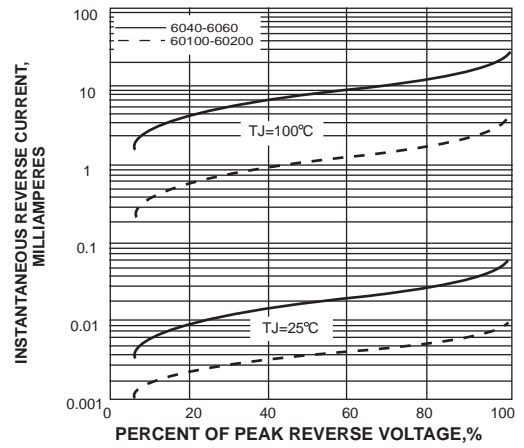


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



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