

Bridge Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

| Symbol | Parameter | Value | | | | | | Units | |
|--------------------|--|-------------|-----|-----|---------|-----|-----|-------|----|
| | | 8A | 8B | 8D | 8G | 8J | 8K | 8M | |
| V _{RRM} | Maximum Repetitive Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| V _{RMS} | Maximum RMS Bridge Input Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| V _R | DC Reverse Voltage (Rated V _R) | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| I _{F(AV)} | Average Rectified Forward Current, @ T _A = 50°C | | | | 8.0 | | | | А |
| I _{FSM} | Non-repetitive Peak Forward Surge Current | 300 | | | А | | | | |
| T _{stg} | Storage Temperature Range | -55 to +150 | | | °C | | | | |
| TJ | Operating Junction Temperature | | | -5 | 5 to +1 | 50 | | | °C |

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

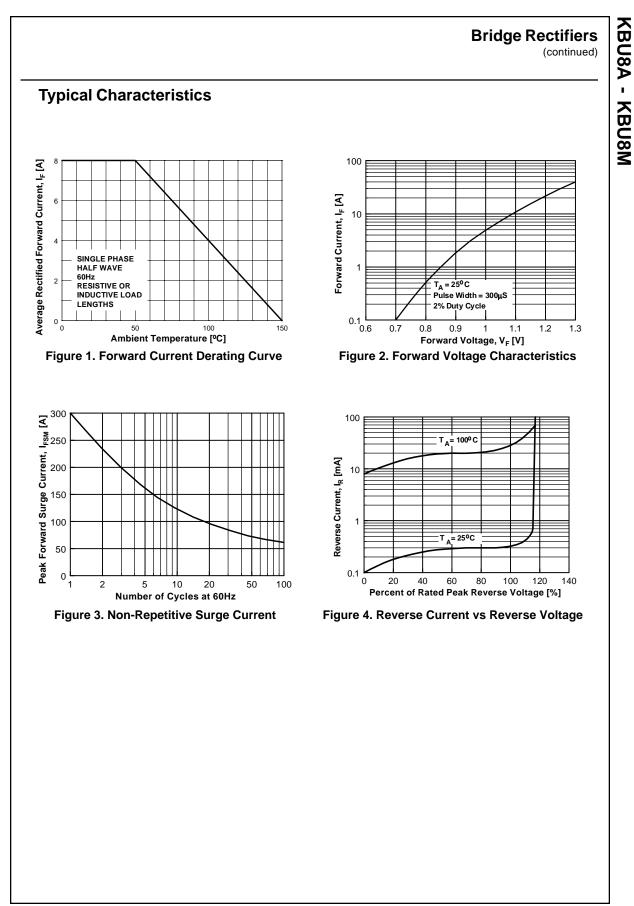
| Symbol | Parameter | Value | Units |
|------------------------|---|-------|-------|
| P _D | Power Dissipation | 6.9 | W |
| $R_{_{	ext{	heta}JA}}$ | Thermal Resistance, Junction to Ambient,* per leg | 18 | °C/W |
| $R_{	extsf{	hetaJL}}$ | Thermal Resistance, Junction to Lead,* per leg | 3.0 | °C/W |

*Device mounted on PCB with 0.375 " (9.5 mm) lead length and 0.5 x 0.5" (13 x 13 mm) copper pads.

Electrical Characteristics T_A = 25°C unless otherwise noted

| Symbol | Parameter | Device | Units |
|----------------|---|-----------|----------|
| V _F | Forward Voltage, per bridge @ 8.0 A | 1.0 | V |
| I _R | Reverse Current, total bridge @ rated V _R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$ | 10 500 | μΑ μΑ |

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