

Bridge Rectifiers

| Absolute Maximum Ratings* | T _A = 25°C unless otherwise noted |
|---------------------------|--|
|---------------------------|--|

| Symbol | Parameter | Value | | | | | | Units | |
|--------------------|--|-------------|-----|-----|---------|-----|-----|-------|----|
| _ | | 4A | 4B | 4D | 4G | 4J | 4K | 4M | |
| 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, @ $T_A = 50^{\circ}C$ | 4.0 | | | А | | | | |
| I _{FSM} | Non-repetitive Peak Forward Surge Current | 200 | | | А | | | | |
| T _{stg} | Storage Temperature Range | -55 to +150 | | | °C | | | | |
| TJ | Operating Junction Temperature | | | -58 | 5 to +1 | 50 | | | °C |

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

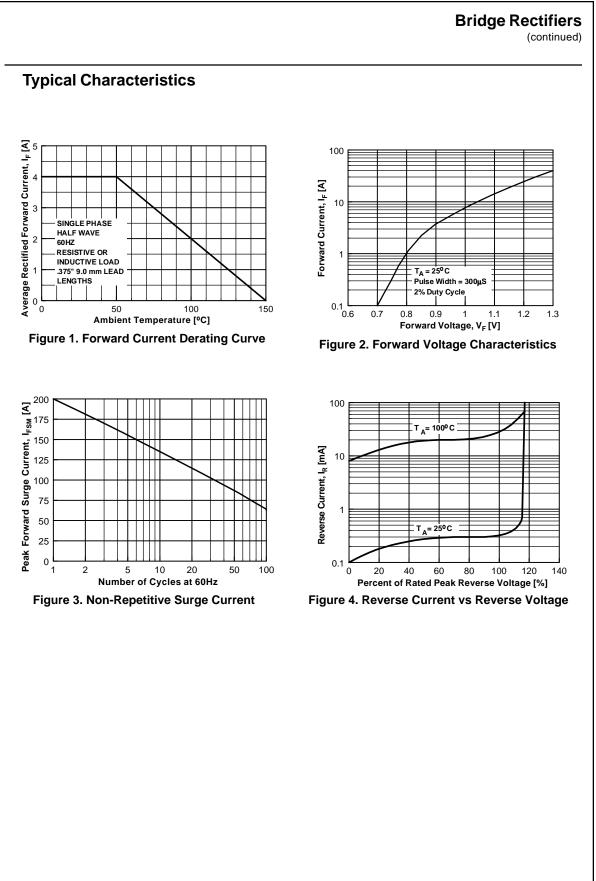
Thermal Characteristics

| Symbol | Parameter | Value | Units |
|-----------------------|---|-------|-------|
| P _D | Power Dissipation | 6.6 | W |
| R _{eJA} | Thermal Resistance, Junction to Ambient,* per leg | 19 | °C/W |
| $R_{	extsf{	heta}JL}$ | Thermal Resistance, Junction to Lead,* per leg | 4.0 | °C/W |

*Device mounted on PCB with 0.375 " (9.5 mm) lead length and 0.5×0.5 " (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 @ 4.0 A | 1.0 | V |
| I _R | Reverse Current, total bridge @ rated V _R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$ | 5.0 500 | μΑ μΑ |



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KBU4A-KBU4M, Rev. C

KBU4A - KBU4M

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