

**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 8.0 A**

### Features

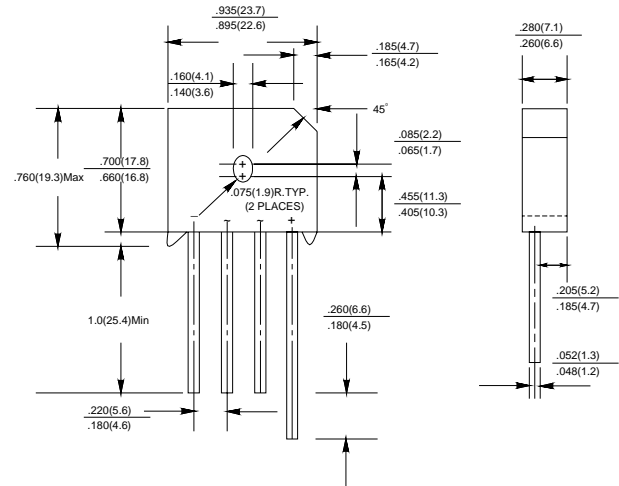
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:  
260°C/10 seconds, 0.375" (9.5mm) lead length,  
5 lbs. (2.3kg) tension
- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0

### Mechanical Data

- Case: Molded plastic body
- Terminals: Plated leads solderable per  
MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Weight: 0.3 ounce, 8.0 grams



### KBU



### Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	RS801	RS802	RS803	RS804	RS805	RS806	RS807	Unit
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward Output current @ $T_A = 25^\circ\text{C}$	$I_{F(AV)}$	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	200.0							A
Maximum instantaneous forward voltage at 4.0 A	$V_F$	1.0							V
Maximum reverse current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	$I_R$	10.0 1.0							$\mu\text{A}$ mA
Operating junction temperature range	$T_J$	- 55 ---- + 125							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	- 55 ---- + 150							$^\circ\text{C}$



FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

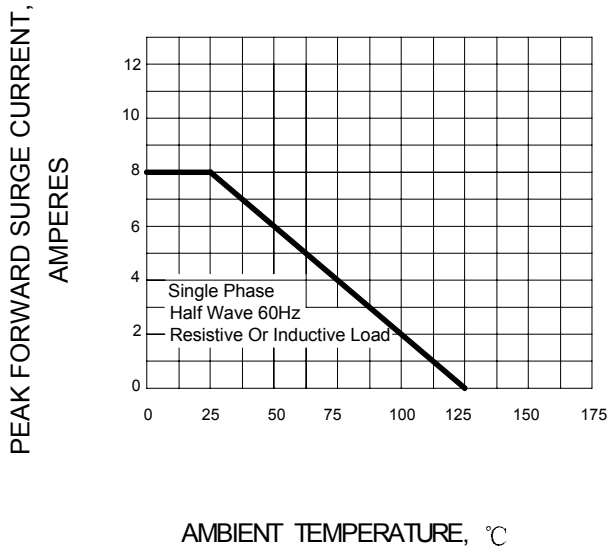


FIG.2 – MAXIMUM FORWARD SURGE CURRENT

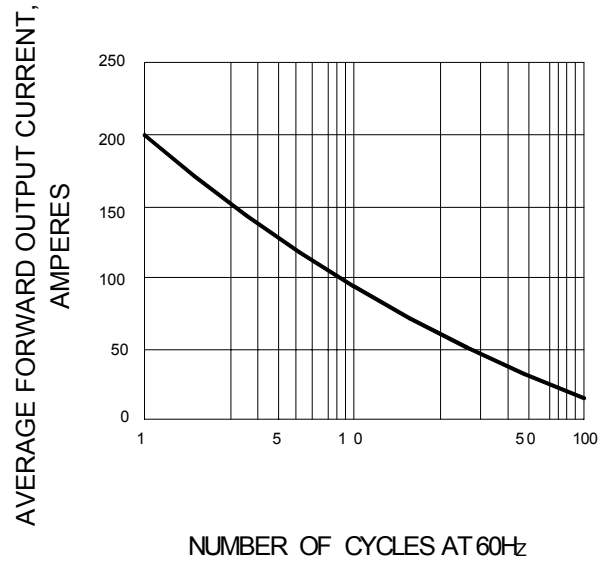


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

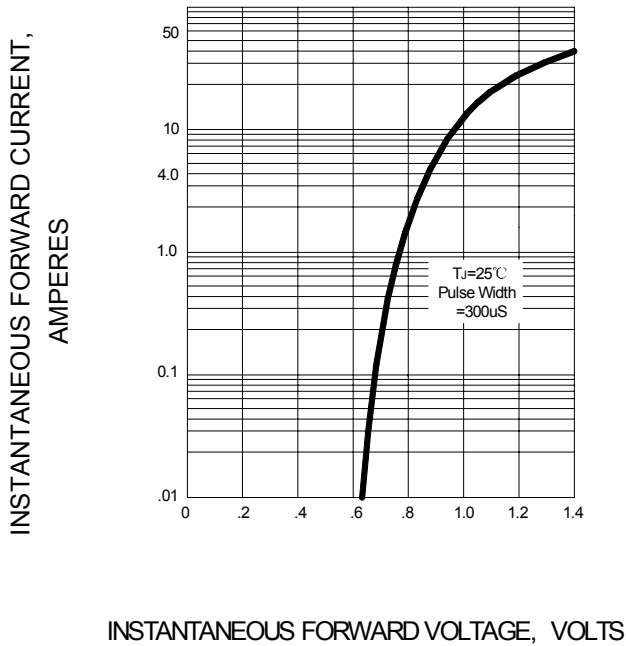


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

