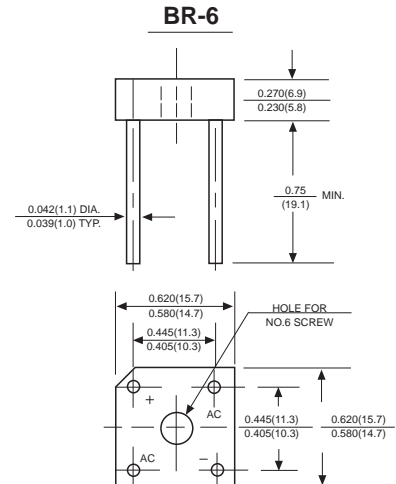


**FEATURES**

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

**MECHANICAL DATA**

- Case: Molded plastic body
- Terminals : Plated leads solderable per MIL-STD-750, Method 2026
- Polarity : Polarity symbols marked on case
- Mounting : Thru hole for #6 serew, 5in.-lbs. torque max.
- Weight: 0.13 ounce, 3.66 grams



*Dimensions in inches and (millimeters)*

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

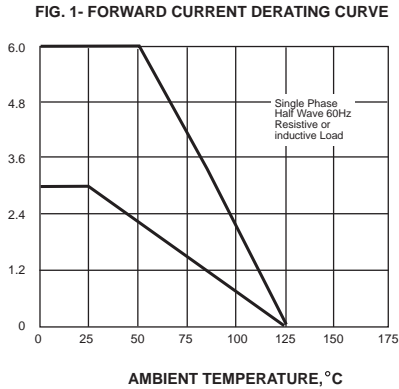
- Ratings at 25°C ambient temperature unless otherwise specified.
- Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	KBPC 6005 BR605	KBPC 601 BR61	KBPC 602 BR62	KBPC 604 BR64	KBPC 606 BR66	KBPC 608 BR68	KBPC 610 BR610	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLTS
Maximum average forward output rectified current at $T_A=50^\circ\text{C}$ (Note 1) $T_A=25^\circ\text{C}$ (Note 2)	$I_{(AV)}$	6.0 3.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	125						Amps	
Rating for Fusing( $t<8.3\text{ms}$ )	$I^2t$	64						$\text{A}^2\text{s}$	
Maximum instantaneous forward voltage drop per bridge element at 3.0A	$V_F$	1.0						Volts	
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	10 1.0						$\mu\text{A}$ mA	
Typical Junction Capacitance (Note 1)	$C_J$	60						pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	8.0						$^\circ\text{C}/\text{W}$	
Operating junction temperature range	$T_J$	-55 to +125						$^\circ\text{C}$	
storage temperature range	$T_{STG}$	-55 to +150						$^\circ\text{C}$	

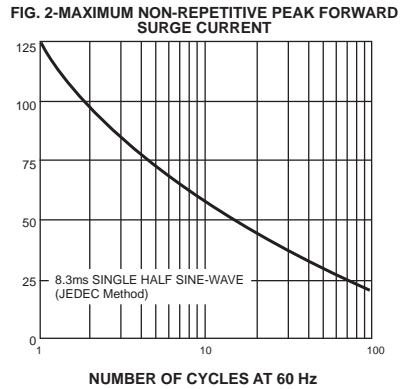
**NOTES:**

1. Unit mounted on 6.0" x 5.5" x 0.11" thick (15x14x0.3cm) Al. plate.
2. Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads, 0.375" (9.5mm) lead length.

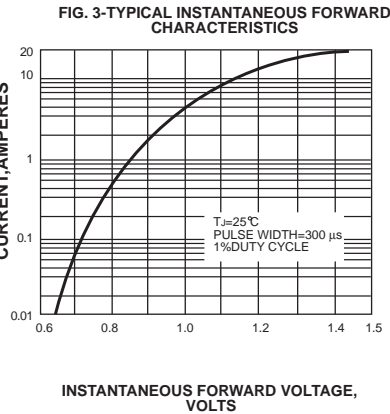
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



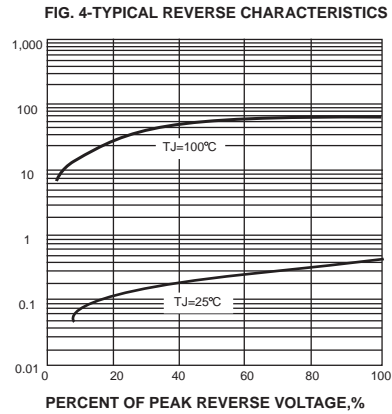
PEAK FORWARD SURGE CURRENT, AMPERES



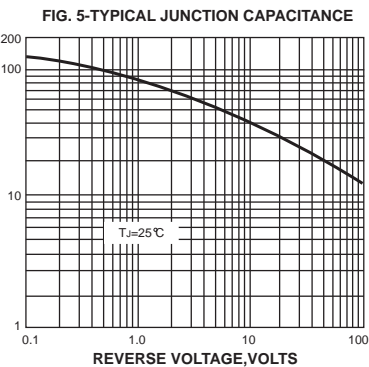
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W

