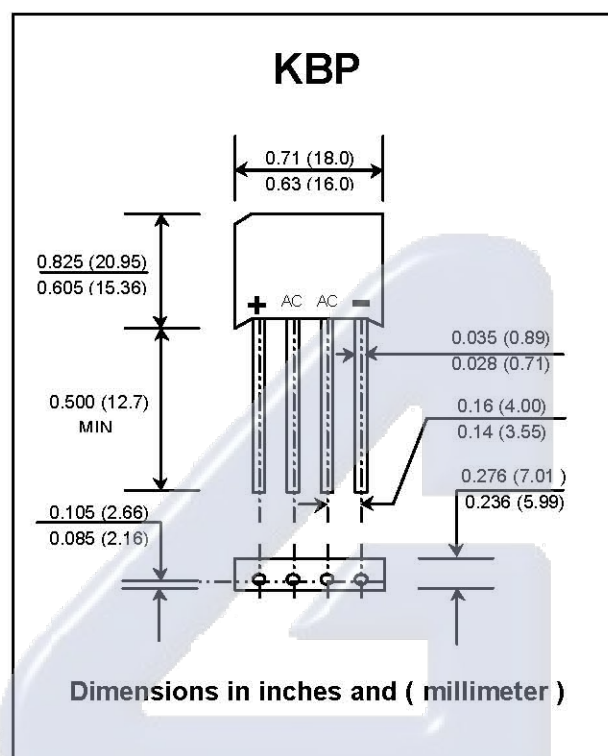


KBP200 - KBP210**SILICON BRIDGE RECTIFIERS****PRV : 50 - 1000 Volts****Io : 2.0 Amperes****FEATURES :**

- * High case dielectric strength
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Ideal for printed circuit board

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 3.4 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

RATING	SYMBOL	KBP 200	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	UNIT
Maximum Recurrent 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 Current $T_c = 50^\circ\text{C}$	$I_{F(AV)}$	2.0							Amps.
Peak Forward Surge Current, Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	60							Amps.
Rating for fusing ($t < 8.3 \text{ ms.}$)	I^2t	10							A^2S
Maximum Forward Voltage per Diode at $I_F = 1.0 \text{ Amp.}$	V_F	1.0							Volts
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$	I_R	10							μA
at Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	$I_{R(H)}$	1.0							mA
Typical Junction Capacitance per Diode (Note 1)	C_J	24							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30							$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 50 to + 125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 50 to + 125							$^\circ\text{C}$

Notes :

- 1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2) Thermal resistance from Junction to Ambient with units mounted on a 0.47" X 0.47" (12mm X 12mm) Cu. Pads.

UPDATE : MARCH 6, 2000

RATING AND CHARACTERISTIC CURVES (KBP200 - KBP210)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

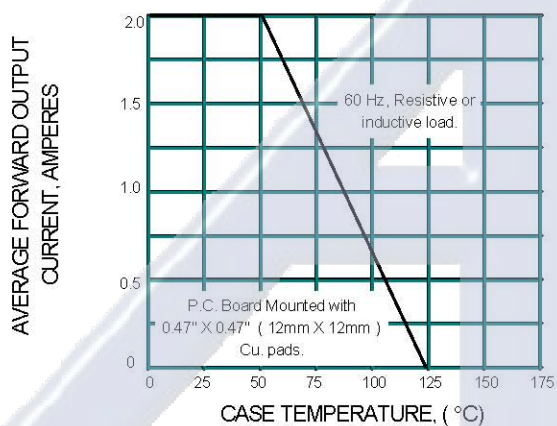


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

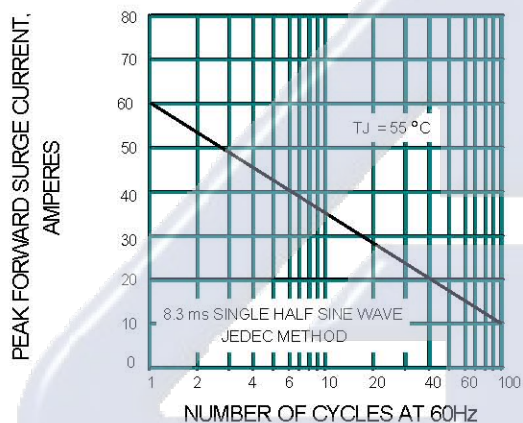


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

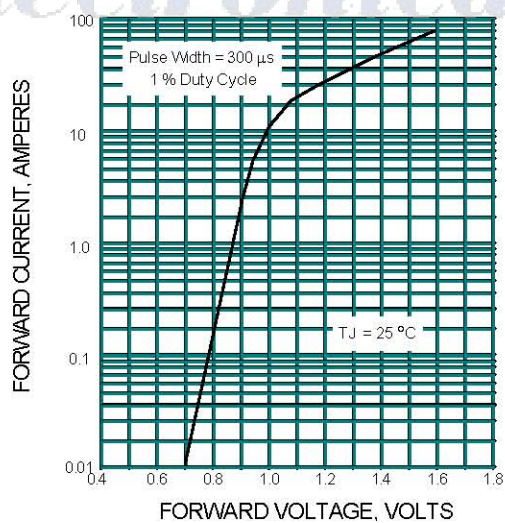


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

