

KBP200 - KBP210

SILICON BRIDGE RECTIFIERS

PRV : 50 - 1000 Volts

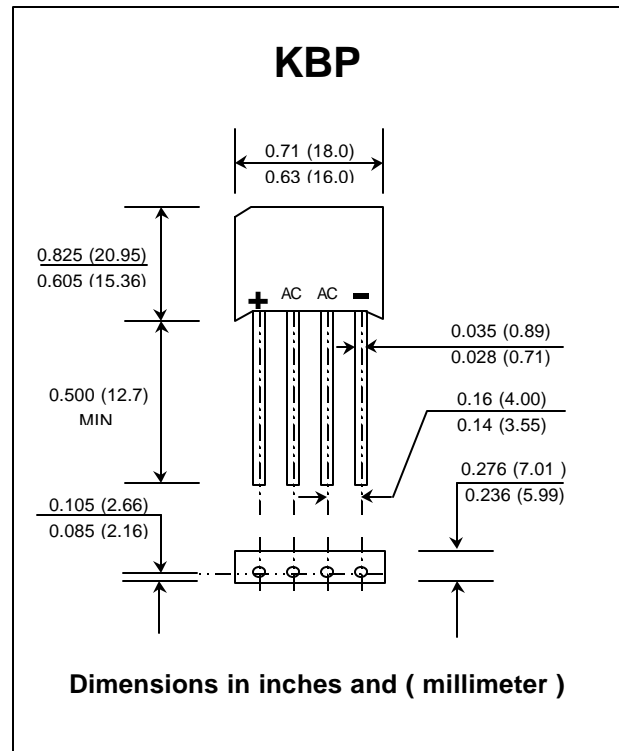
Io : 2.0 Amperes

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 °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 ms.)	I ² t	10							A ² S
Maximum Forward Voltage per Diode at I _F = 1.0 Amp.	V _F	1.0							Volts
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	I _R	10							μA
	I _{R(H)}	1.0							mA
Typical Junction Capacitance per Diode (Note 1)	C _J	24							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	30							°C/W
Operating Junction Temperature Range	T _J	- 50 to + 125							°C
Storage Temperature Range	T _{STG}	- 50 to + 125							°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

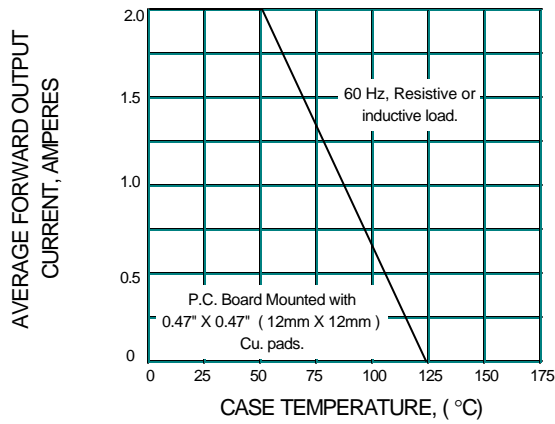


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

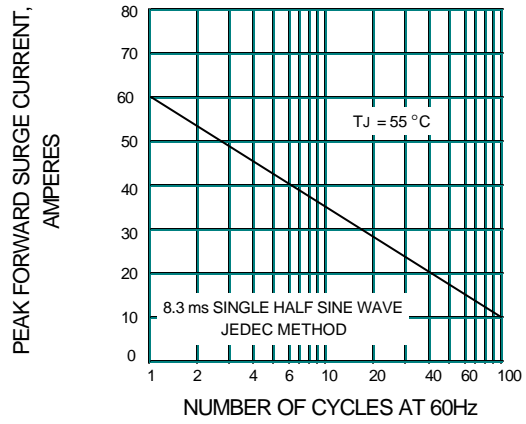


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

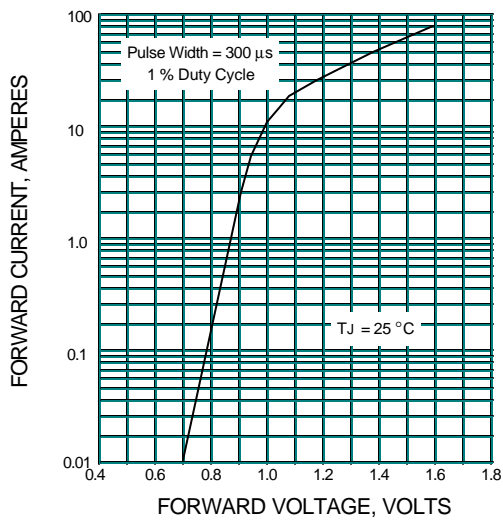
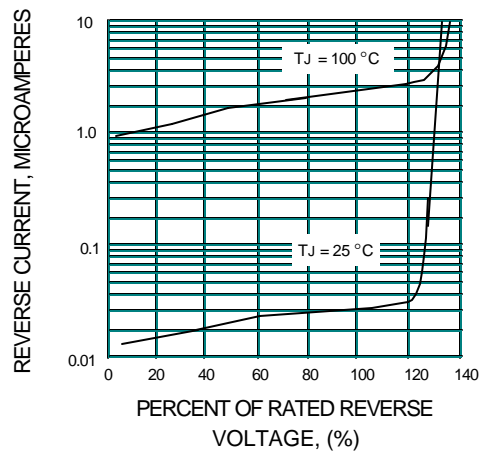


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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Datasheets for electronics components.