

KBP200 - KBP210

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
- RoHS compliant package

Mechanical Data

- Case : Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Terminals : Plated lead solderable per MIL-STD-202,

Method 208 guaranteed

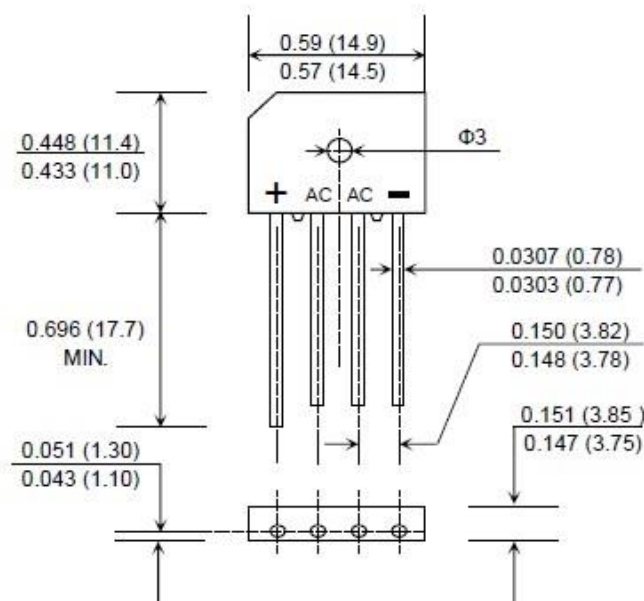
- Polarity : Polarity symbols marked on case
- Mounting position : Any
- Weight : 3.4 grams

Packing & Order Information

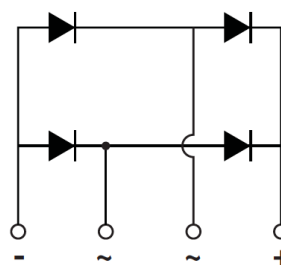
500/Box



RoHS
COMPLIANT



Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specifie.

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	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 Current $T_c = 50^{\circ}C$	$I_{F(AV)}$	2.0							A
Rating for fusing ($t < 8.3$ ms.)	I^2t	10							A ² S
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30							°C/W

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Rating	Symbol	KBP 200	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	Unit
Peak Forward Surge Current, Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	60							V
Maximum Forward Voltage per Diode at $F = 1.0$ A	V_F	1.0							V
Maximum DC Reverse Current $T_a = 25^{\circ}\text{C}$	I_R	10							V
at Rated DC Blocking Voltage $T_a = 100^{\circ}\text{C}$	$I_{R(H)}$	1.0							A
Typical Junction Capacitance per Diode (Note 1)	C_J	24							pF
Operating junction temperature range	T_J	-55 to +125							$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 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.

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■ RATING AND CHARACTERISTIC CURVES (KBP200 - KBP210)

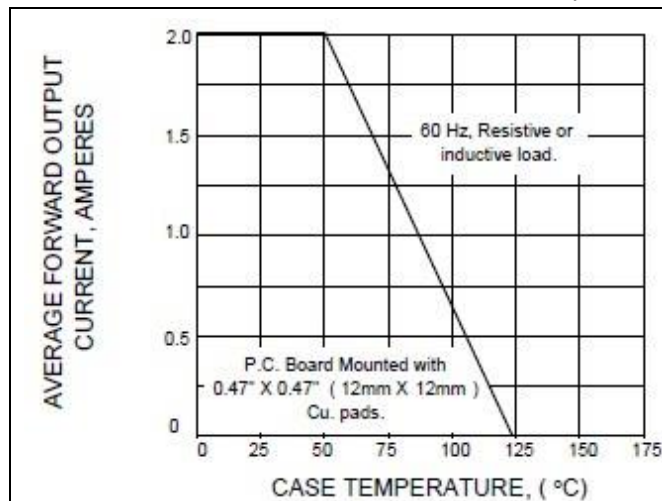


FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

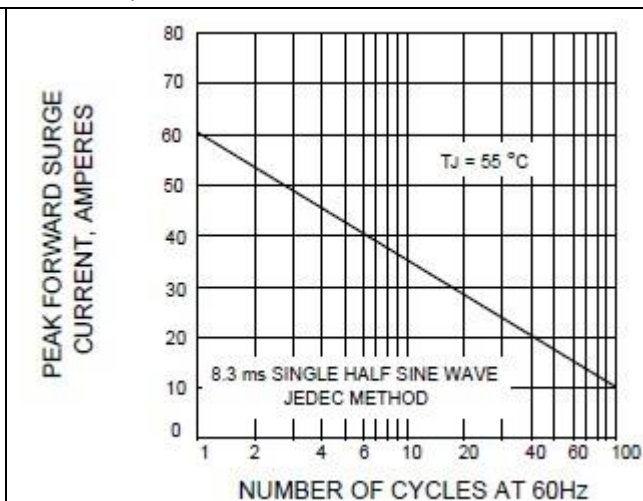


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

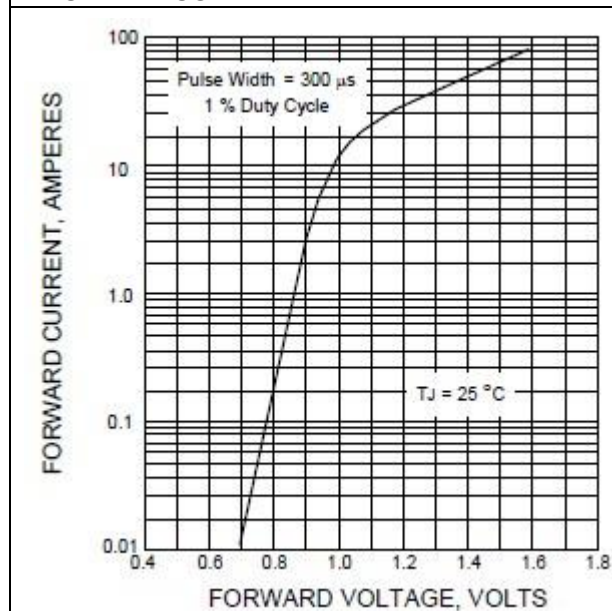


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

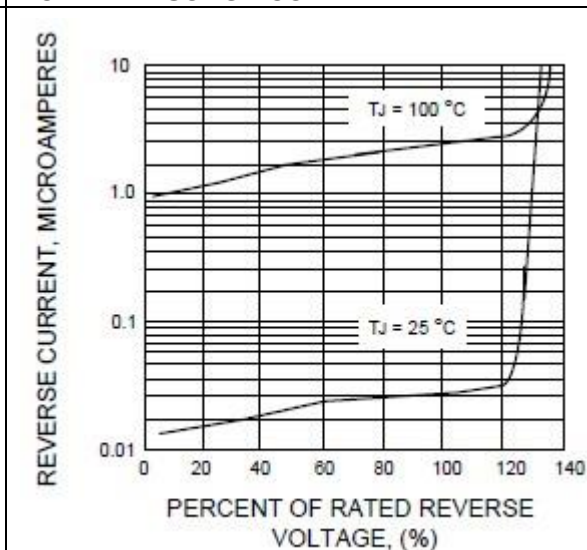


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

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