

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

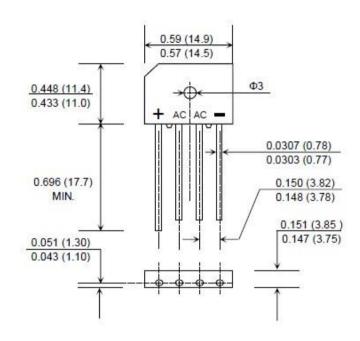
Package type: KBP

Packing & Order Information

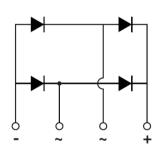
500/Box



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% KBP KBP KBP KBP **KBP KBP KBP** Rating Symbol Unit 200 201 202 204 206 208 210 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 2.0 A I_{F(AV)} $Tc = 50^{\circ}C$ A^2S I^2t Rating for fusing (t < 8.3 ms.) 10 °C/W Typical Thermal Resistance (Note 2) $R_{\theta JA}$ 30



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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)	IFSM				60	,			V
Maximum Forward Voltage per Diode at $F = 1.0 A$	V _F	1.0							V
Maximum DC Reverse Current Ta = 25°C	I_R	10							V
at Rated DC Blocking Voltage Ta = 100°C	I _{R(H)}	1.0							A
Typical Junction Capacitance per Diode (Note 1)	CJ	24							pF
Operating junction temperature range	T _J	-55 to +125							°C
Storage temperature range	Tstg	-55 to +125							°C

Notes

⁽¹⁾ Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

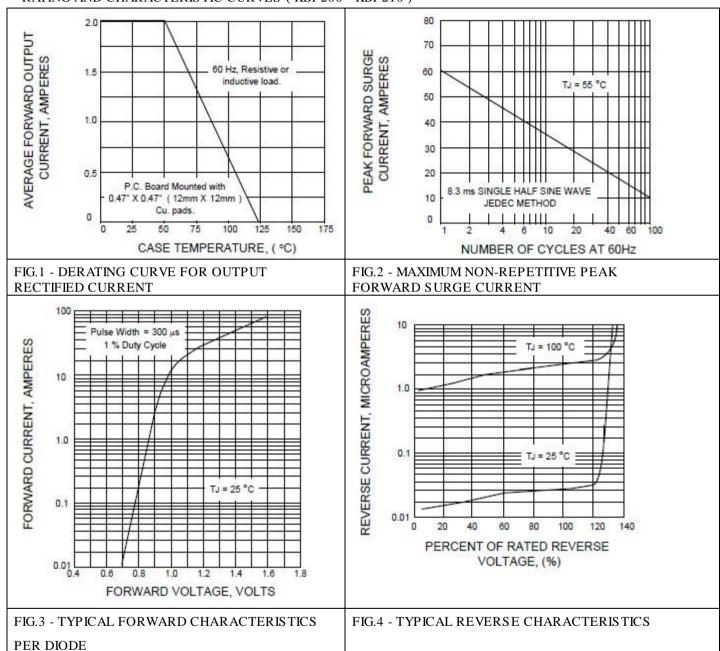
⁽²⁾ Thermal resistance from Junction to Ambient with units mounted on a 0.47" X 0.47" (12mm X 12mm) Cu. Pads



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■RATING AND CHARACTERISTIC CURVES (KBP200 - KBP210)





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