

KBP005/RS201 THRU KBP10/RS207

SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

FEATURES

- * Low cost
- * High forward surge current capability
- * Ideal for printed circuit board
- * High temperature soldering guaranteed: 260°c/10 second at 5 lbs. (2.3kg) tension

MECHANICAL DATA

* Case: Transfer molded plastic

* Epoxy: UL94V-O rate flame retardant

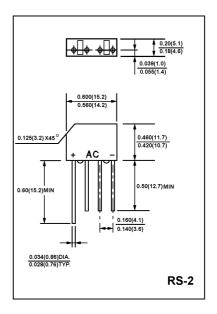
* Terminals: Lead Solderable Per MIL-STD-202E

method 208C

* Polarity: As Marking on Body

* Mounting Position: Any

* Weight: 0.069 ounce, 1.95 gram



MAXIMUM RATINGS AND ELECTRICAL CHARATERISTICS

- * Rating at 25 ambient temperature unless otherwise specified
- * Single phase,half wave. 60Hz, resistive or inductive load.

* For capacitive load derate current by 20 %

Characteristic	Symbol	KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	Unit
		RS201	RS202	RS203	RS204	RS205	RS206	RS207	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectifier Forward Current (Note 1) @ T _A =50	I _{O(AV)}	2.0							Α
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50							А
Forward Voltage (per element) (I _F =2.0 Amp)	V_{FM}	1.0							V
Peak Reverse Current (Rated DC Voltage, T _C = 25) (Rated DC Voltage, T _C = 100)	I _R	10 0.5						uA mA	
Rating for Fusing(t<8.3 ms)	I ² t	10							A^2s
Typical Junction Capacitance per element (Note2)	CJ	20							pF
Typical Thermal Resistance (note 3)	R _{θ jA}	28							k/W
Operating and Storage Temperature Range	T_J , T_{stg}	-65 to +150							

Note: 1 Lead maintained at ambient temperature at a distance of 9.5 mm from the case.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance junction to ambient, mounted on PC board with 12 mm² copper pad.

KBP005/RS201 thru KBP10/RS207



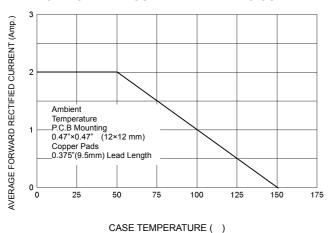
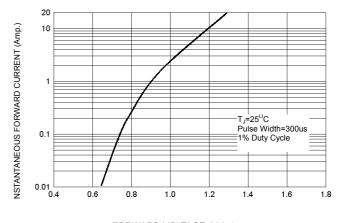
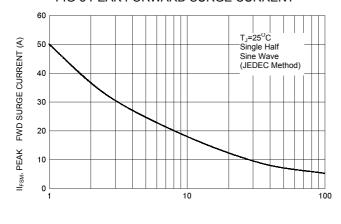


FIG-2 TYPICAL FORWARD CHARACTERISITICS



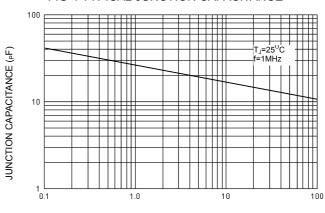
FORWARD VOLTAGE (Volts)

FIG-3 PEAK FORWARD SURGE CURRENT



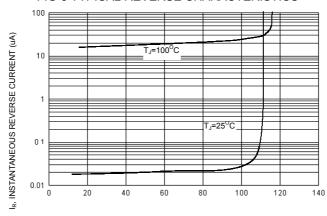
NUMBER OF CYCLES AT 60 Hz

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)