



# KBP005/RS201 THRU KBP10/RS207

## SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 2.0A

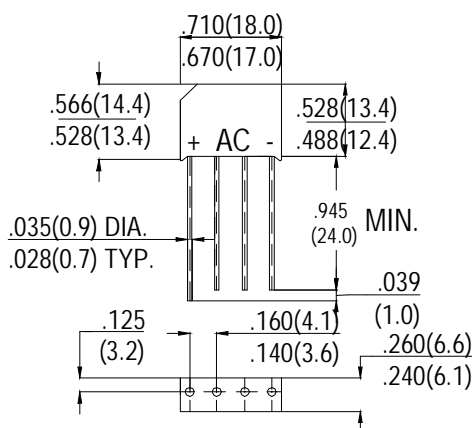
### FEATURES

- Ideal for printed circuit board
- Surge overload ratings-50 Amperes

### MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL 94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** As marked
- **Mounting position:** Any
- **Weight:** 2.74 grams

### RS-2



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOL	KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	units	
		RS201	RS202	RS203	RS204	RS205	RS206	RS207		
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS Bridge Input 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 rectified Output Current at $T_A=50^\circ\text{C}$	$I_o$	2.0							A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	50							A	
Maximum Forward Voltage Drop per element at 1.0A DC	$V_F$	1.0							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	$I_R$	@ $T_A=25^\circ\text{C}$	10							$\mu\text{A}$
		@ $T_A=100^\circ\text{C}$	500							
$I^2t$ Rating for Fusing ( $t<8.3\text{ms}$ )	$I^2t$	10							$\text{A}^2\text{S}$	
Typical Junction Capacitance (Note 1)	$C_J$	15							pF	

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.47×0.47"(12×12mm) copper pads