

# KBU10A THRU KBU10M

## SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 10.0A

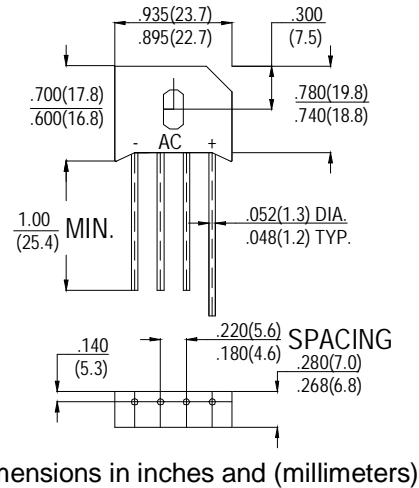
### FEATURES

- Low leakage
- Low forward voltage
- Surge overload ratings-250 Amperes
- Molded structure

### MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL 94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Symbols molded or marked on body
- **Mounting position:** Any
- **Weight:** 8.0 grams

### KBU



## 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	KBU10A	KBU10B	KBU10D	KBU10G	KBU10J	KBU10K	KBU10M	units
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 $T_C=75^\circ C$	$I_o$	10.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	250							A
Maximum Forward Voltage Drop per element at 5.0A DC	$V_F$	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@ $T_A=25^\circ C$	10							$\mu A$
	@ $T_A=100^\circ C$	500							
$I^2t$ Rating for Fusing ( $t<8.3ms$ )	$I^2t$	127							$A^2S_{ec}$
Typical Junction Capacitance (Note 1)	$C_J$	186							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	10							$^\circ C/W$

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0 volts  
 2. Thermal Resistance from Junction to Ambient with units mounted on 0.47×0.47”(12×12mm) copper pads