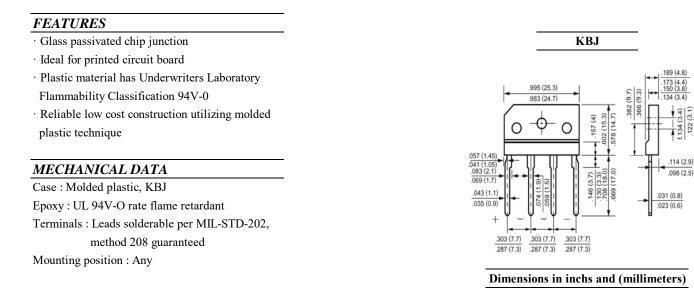
# SMG

## **KBJ4005 THRU KBJ410**

#### **GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIERS**

#### REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 4.0 AMPERE



#### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave,  $60H_Z$ , resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	Т	4.0							Amp
at T <sub>C</sub> =100°C with heatsink	I <sub>(AV)</sub>								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I <sub>FSM</sub> 120.0								Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V <sub>F</sub>	1.00							Volts
at 2.0A DC and 25°C	vF								
Maximum Reverse Current at T <sub>A</sub> =25°C	T	5.0							
at Rated DC Blocking Voltage T <sub>A</sub> =125°C	I <sub>R</sub> 500							μАтр	
Typical Junction Capacitance (Note 1)	CJ	40							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	5.5							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg	-55 to +150							Ĉ

NOTES:

1- Measured at 1  $\ensuremath{\text{MH}}_Z$  and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Case with Device Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

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### RATINGS AND CHARACTERISTIC CURVES

