## SILICON BRIDGE RECTIFIER

VOLTAGE RANGE: 50 --- 1000 V

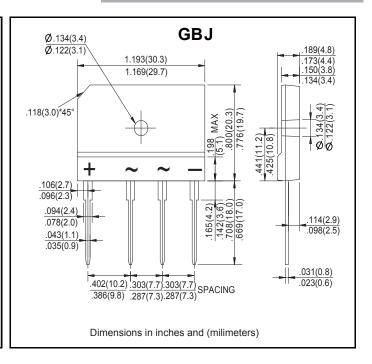
CURRENT: 25.0 A

### **FEATURES**

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- •Weight: 0.24 ounces, 6.79grams

#### **MECHANCAL DATA**

- •Polarity:Sym bols molded on body
- •Weight: 0.23 ounces, 6.6 grams
- Mounting position: Any



#### **MAXIMUM RATINGS AND CHARACTERISTICS**

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

CHARACTERISTICS	SYMBOL	KBJ 25005	KBJ 2501	KBJ 2502	KBJ 2504	KBJ 2506	KBJ 2508	KBJ 2510	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)  Rectified Current @ Tc=100℃ (without heatsink)	I(AV)	25.0 4.2							А
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	350							А
Maximum Forward Voltage at 12.5A DC	VF	1.1							V
Maximum DC Reverse Current       J=25°C         at Rated DC Blocking Voltage       J=125°C	lR	10.0 500							uA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	510							A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	CJ	85							pF
Typical Thermal Resistance (Note2)	Rejc	0.6							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\!\mathbb{C}$

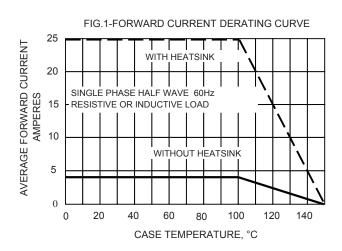
NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

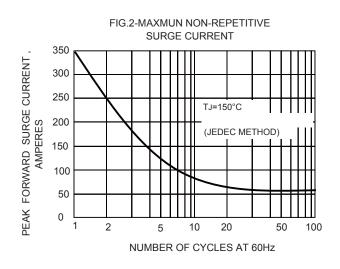
2.Device mounted on 300mm\*300mm\*1.6mm cu plate heatsink.

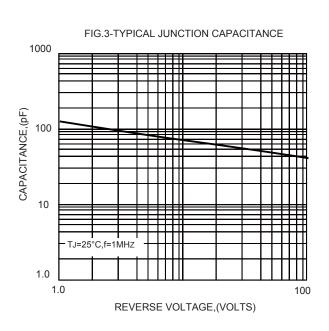
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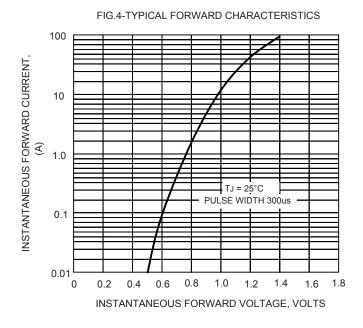


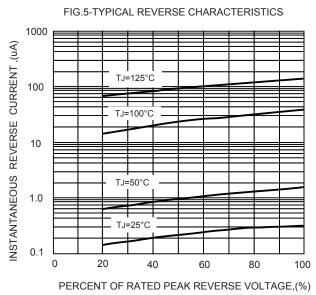
# **RATINGS AND CHARACTERISTIC CURVES**











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