

SILICON BRIDGE RECTIFIERS	<p>REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 8.0 Amperes</p>
<p>FEATURES</p> <ul style="list-style-type: none"> ● 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 U/L flammability classification 94V-0 	<p>KBJ</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	KBJ8005	KBJ801	KBJ802	KBJ804	KBJ806	KBJ808	KBJ810	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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 Current @ T _C =100°C (with heatsink Note 2) @ T _C =100°C (without heatsink)	I _(AV)	8.0 2.9						A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	200						A	
Maximum Forward Voltage at 4.0A DC	V _F	1.0						V	
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10 500						μA	
I ² t Rating for Fusing (t<8.3ms)	I ² t	120						A ² s	
Typical Junction Capacitance Per Element (Note1)	C _J	55						pF	
Typical Thermal Resistance (Note2)	R _{θJC}	1.8						°C/W	
Operating Temperature Range	T _J	-55 to +125						°C	
Storage Temperature Range	T _{STG}	-55 to +150						°C	

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2. Device mounted on 75mm*75mm*1.6mm cu plate heatsink.

FIG.1-FORWARD CURRENT DERATING CURVE

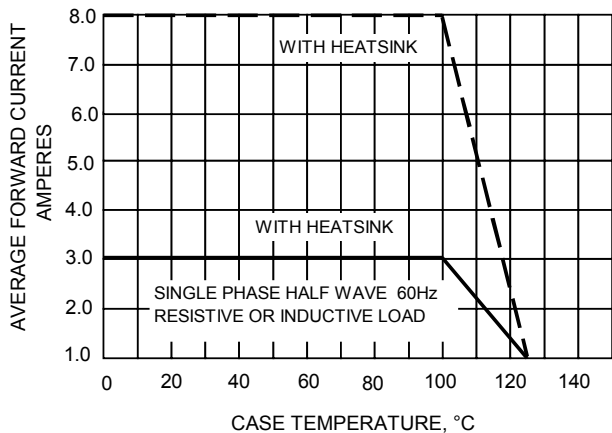


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

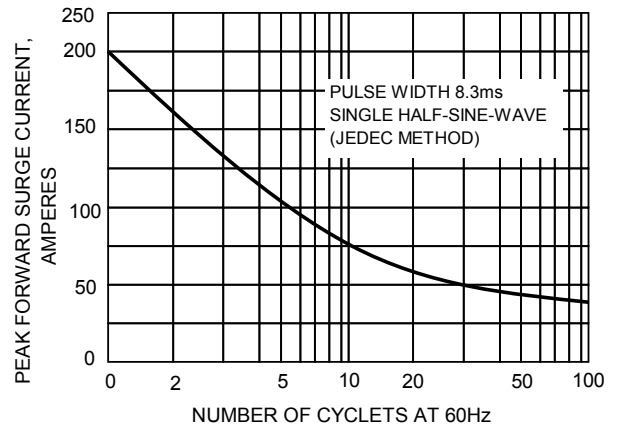


FIG.3-TYPICAL JUNCTION CAPACITANCE

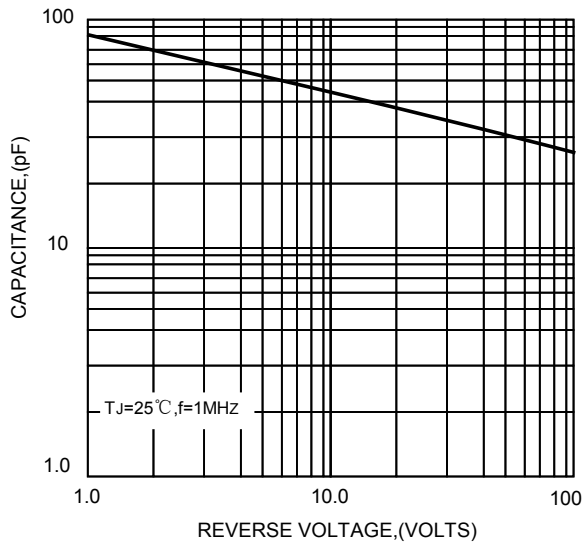


FIG.4-TYPICAL FORWARD CHARACTERISTICS

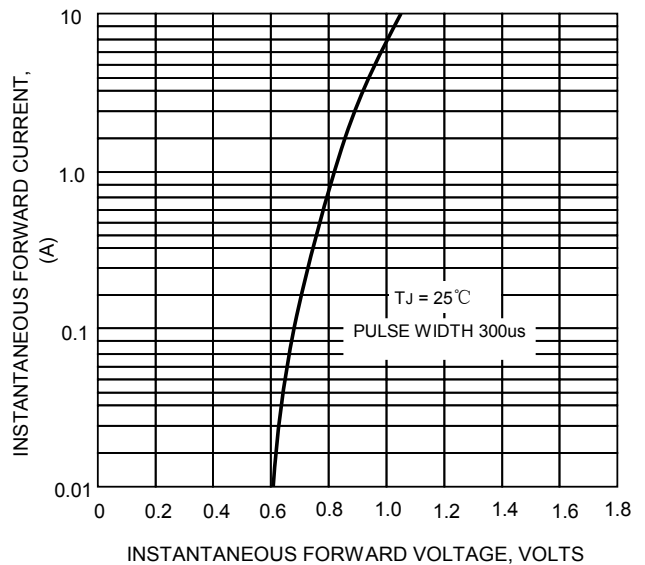


FIG.5-TYPICAL REVERSE CHARACTERISTICS

