

SILICON BRIDGE RECTIFIERS	<p style="text-align: center;">REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 6.0 Amperes</p> <div style="text-align: center; margin: 10px 0;"> </div> <p style="text-align: center;">Dimensions in inches and (millimeters)</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 	

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	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	30	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @ Tc=100°C (with heatsink Note 2) @ Tc=100°C (without heatsink)	I(AV)	6.0 2.8								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	175								A
Maximum Forward Voltage at 3.0A DC	VF	1.0								V
Maximum DC Reverse Current @ Tj=25°C at Rated DC Blocking Voltage @ Tj=125°C	IR	10 500								uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	120								A ² s
Typical Junction Capacitance Per Element (Note1)	CJ	55								pF
Typical Thermal Resistance (Note2)	RθJC	1.8								°C/W
Operating Temperature Range	TJ	-55 to +125								°C
Storage Temperature Range	TSTG	-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

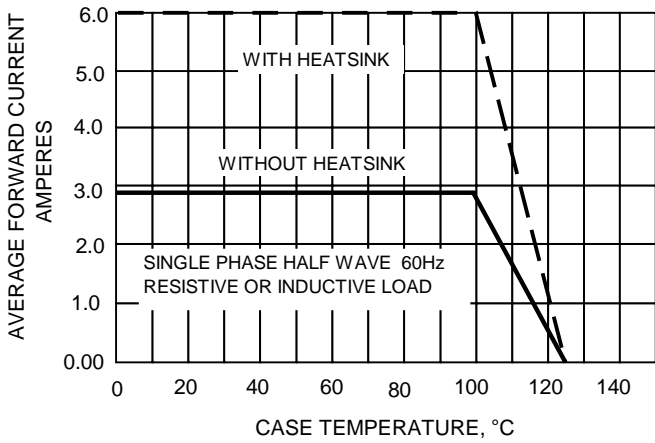


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

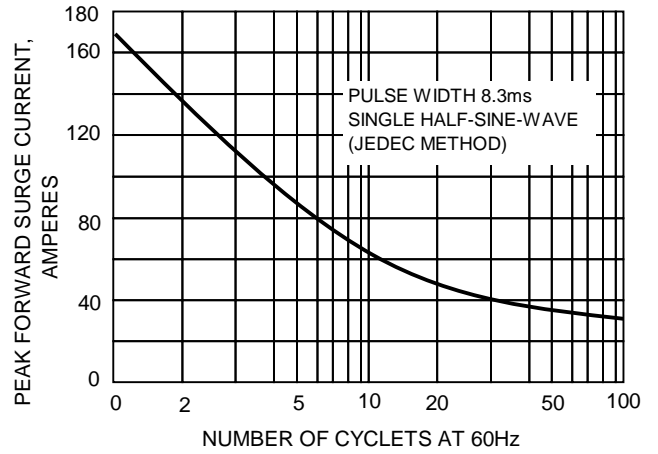


FIG.3-TYPICAL JUNCTION CAPACITANCE

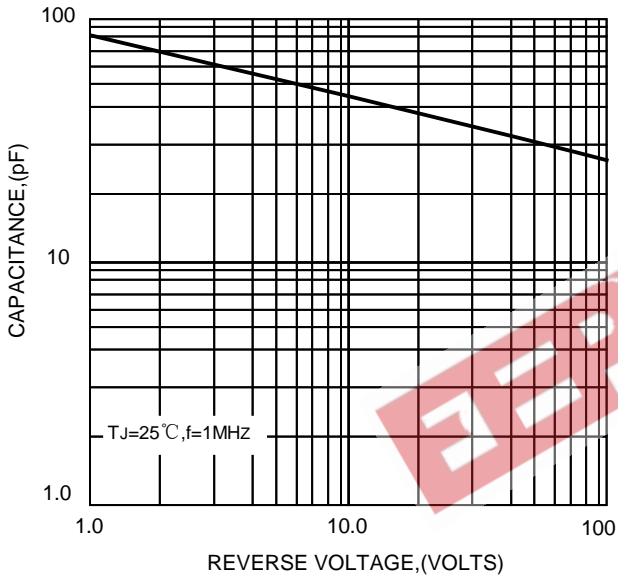


FIG.4-TYPICAL FORWARD CHARACTERISTICS

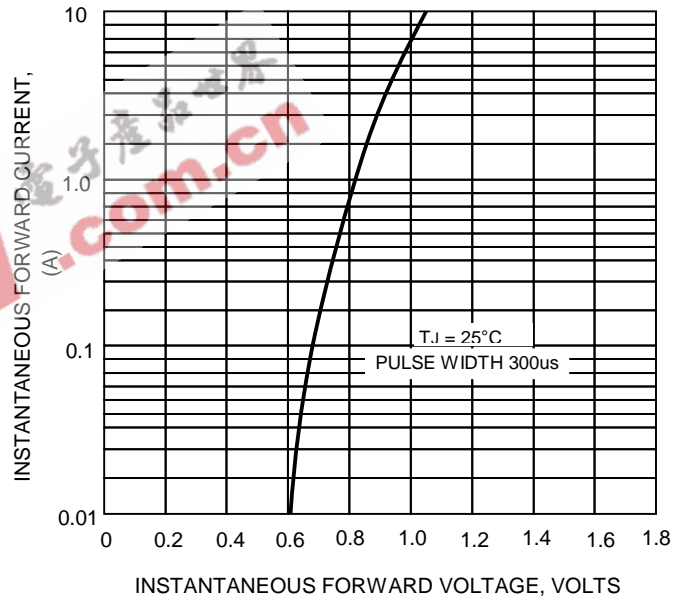


FIG.5-TYPICAL REVERSE CHARACTERISTICS

