



KBU4005 thru KBU410

SILICON BRIDGE RECTIFIERS	<p>REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 4.0Amperes</p>
<p>FEATURES</p> <ul style="list-style-type: none"> ●Surge overload rating -150 amperes peak ●Ideal for printed circuit board ●Reliable low cost construction utilizing molded plastic technique ●Plastic material has UL ●Mounting position:Any ●Mounting torque:5 In.lb.Max 	<p>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	KBU4005	KBU401	KBU402	KBU404	KBU406	KBU408	KBU410	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 Rectified Output Current at Tc=100°C	I(AV)	4.0							A
Peak Forward Surge Current 8.3ms single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150							A
Maximum Instantaneous Forward Voltage Drop per Element at 4.0A	VF	1.0							V
Maximum Reverse Leakage at rated Tj=25°C	IR	10							µA
DC Blocking Voltage Per Element Tj=100°C		100							
Typical Junction Capacitance Per Element (Note1)	CJ	110							pF
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to+150							°C

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



RATING AND CHARACTERISTIC CURVES
KBU4005 thru KBU410



FIG.1-DERATING CURVE FOR
 OUTPUT RECTIFIED CURRENT

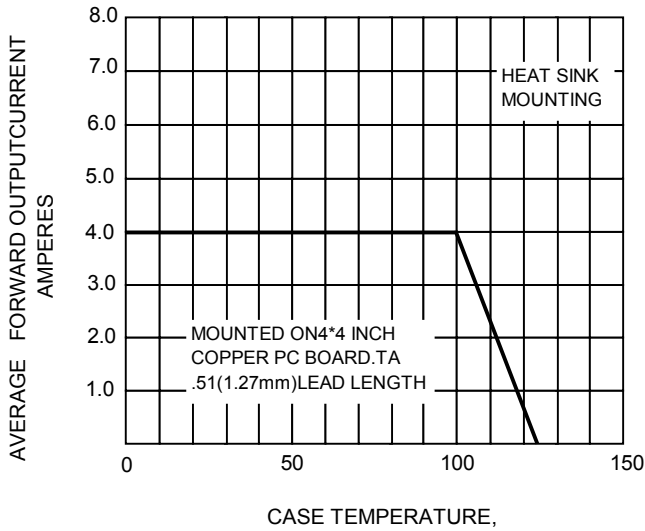


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

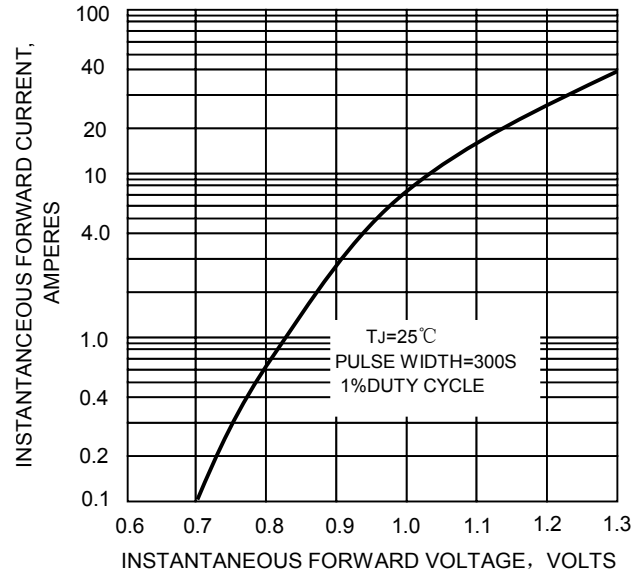


FIG.3-MAXIMUM NON-RETTETIVE PEAK
 FORWARD SURGE CURRENT

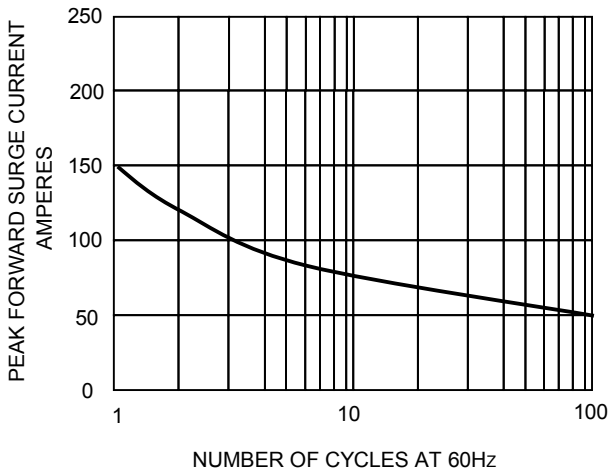


FIG.4-TYPICAL REVERSE CHARACTERISTICS

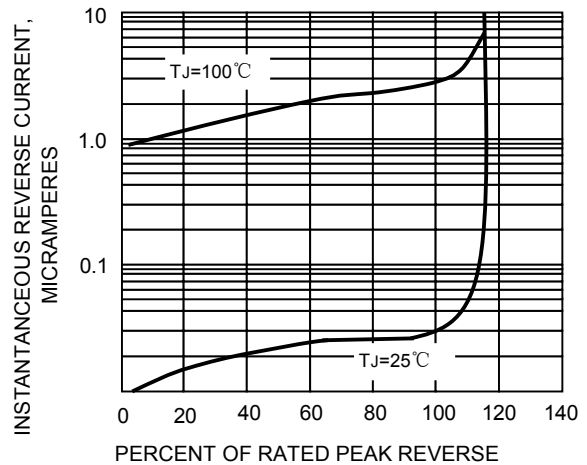


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

