



KBU25005 thru KBU2510

SILICON BRIDGE RECTIFIERS	REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 25.0 Amperes
FEATURES ● Surge overload rating -400 amperes peak ● Ideal for printed circuit board ● Reliable low cost construction utilizing molded plastic technique ● Plastic material has U/L flammability classification 94V-0 ● Mounting position:Any	Dimensions in inches and (millimeters)

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	KBU 25005	KBU 2501	KBU 2502	KBU 2504	KBU 2506	KBU 2508	KBU 2510	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 (with heatsink Note 1) Rectified Current @ T _c =100°C (without heatsink)	I _(AV)	25.0 3.6							
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	400							
Maximum Forward Voltage at 12.5A DC	V _F	1.1							
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10 500							
Operating Temperature Range	T _J	-55 to+125							
Storage Temperature Range	T _{STG}	-55 to+150							

NOTES: 1.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.



RATING AND CHARACTERISTIC CURVES
KBU25005 thru KBU2510



FIG.1-MAXIMUM FORWARD SURGE CURRENT

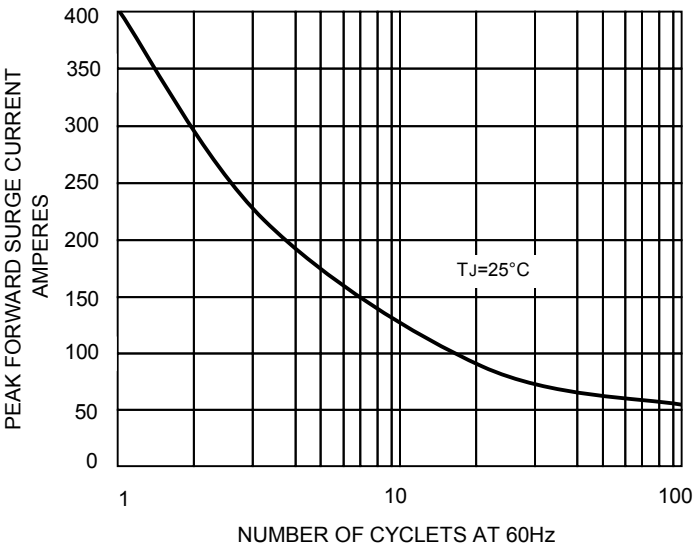


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

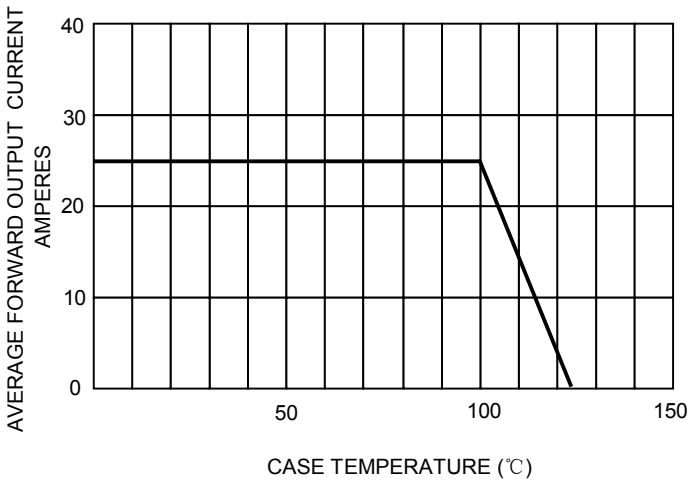


FIG.3– TYPICAL FORWARD CHARACTERISTICS

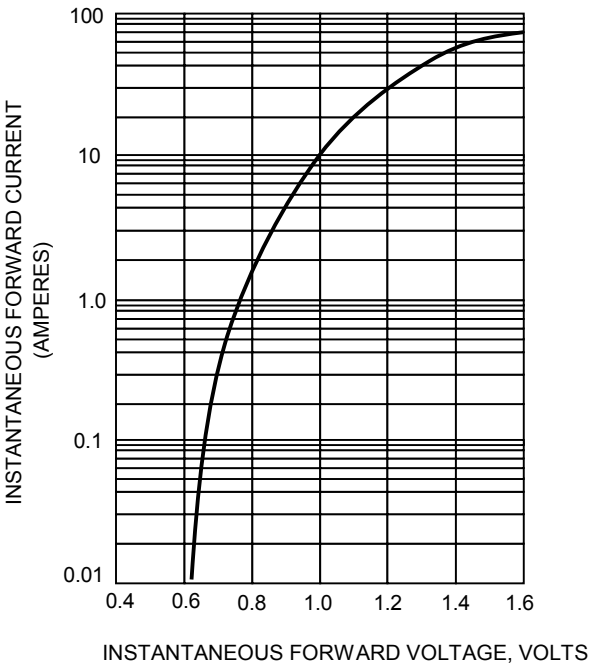


FIG.4– TYPICAL REVERSE CHARACTERISTICS

