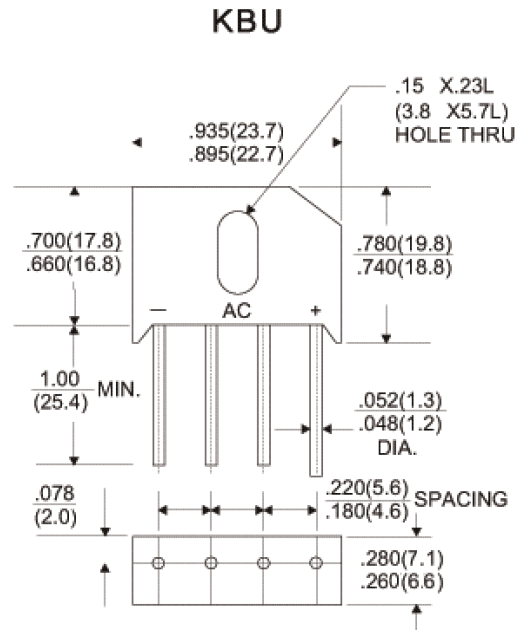


SINGLE-PHASE SILICON BRIDGE KBU8(RS8) SERIES 50 to 1000V 8.0A

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has underwriters laboratory Flammability Classification 94V-0
- Surge overload rating:300 amperes peak
- Mounting Torque: 5 In. lb. max
- UL recognized file # E176542(N)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

		KBU8005 RS8005	KBU801 RS801	KBU802 RS802	KBU804 RS804	KBU806 RS805	KBU808 RS806	KBU810 RS807	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$V_{(AV)}$	8.0 8.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	250							Amp
Maximum DC Forward Voltage at 3.0A DC	V_F	1.0							Volts
Maximum DC Reverse Current at rated @ $T_A=25^\circ C$ DC Blocking Voltage Per Element @ $T_A=100^\circ C$	I_R	10 1							μ Amp mAmp
Typical Thermal Resistance	$R_{\theta JC}$	4.7							$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

RATINGS AND CHARACTERISTIC CURVES (RS8 SERIES)

Fig.1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

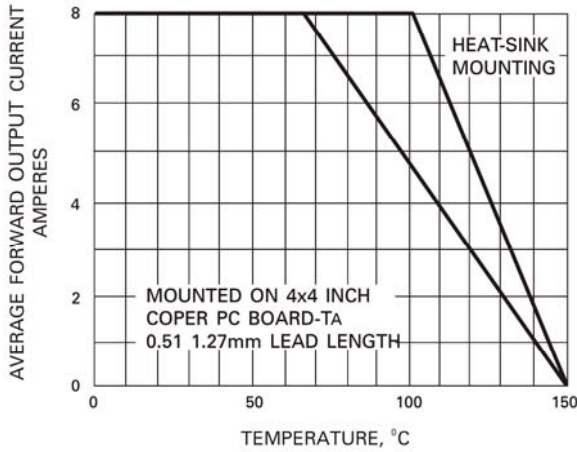


Fig.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

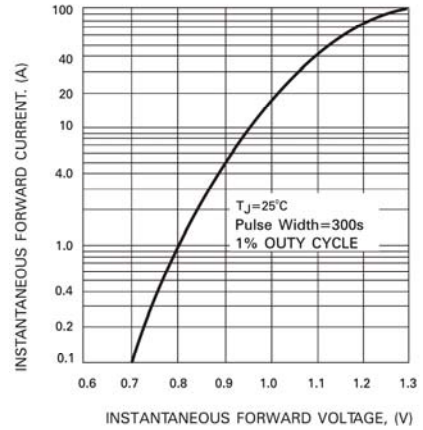


Fig.3 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

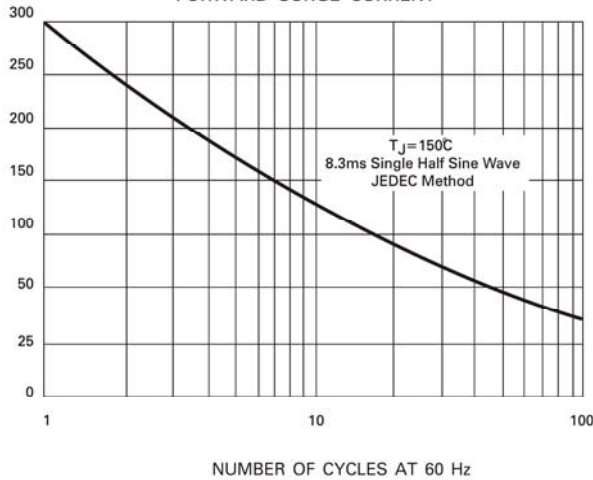


Fig.4 - TYPICAL REVERSE CHARACTERISTICS

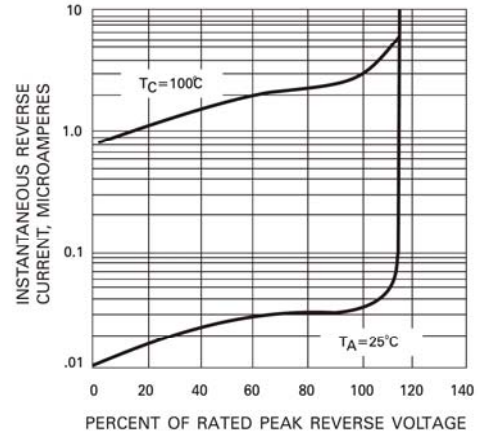


Fig.5 - TYPICAL JUNCTION CAPACITANCE
PER ELEMENT

