

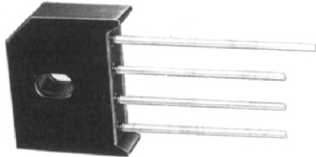
RS8 SERIES

SINGLE-PHASE SILICON BRIDGE



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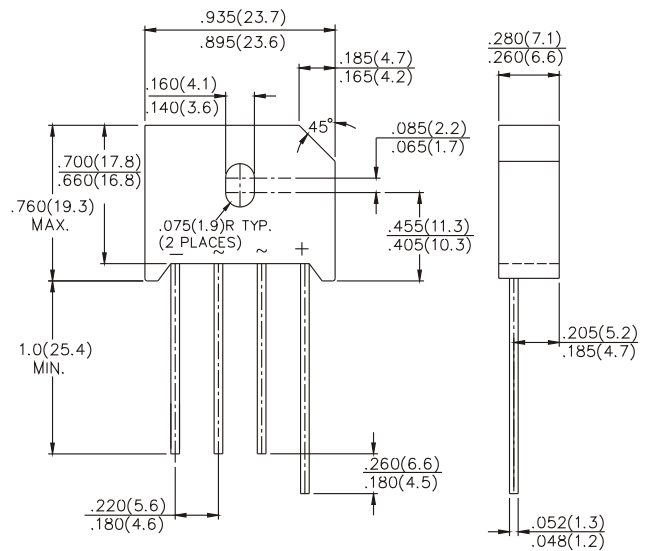
CHENG-YI ELECTRONIC



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 # E149311

VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
8.0 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60 Hz. For capacitive load, derate current by 20%.

		RS8005	RS801	RS802	RS804	RS806	RS808	RS810	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	V
Maximum Average Forward Output Current	$V_{(AV)}$	8.0							A
		@ $T_C=100^\circ\text{C}$							A
		@ $T_A=65^\circ\text{C}$							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	200							A
Maximum DC Forward Voltage drop per element at 4.0A DC	V_F	1							V
Maximum DC Reverse Current at rated DC Blocking Voltage Per Element	I_R	10							μA
		1							mA
Maximum Thermal Resistance (Note)	$R\theta_{JC}$	4.7							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

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RATING AND CHARACTERISTICS CURVES RS8 SERIES

Fig.1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

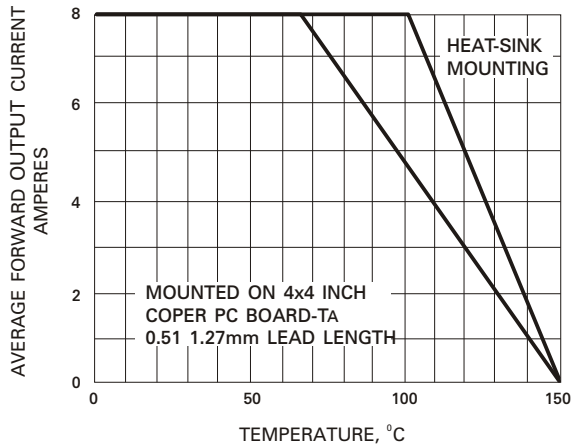


Fig.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

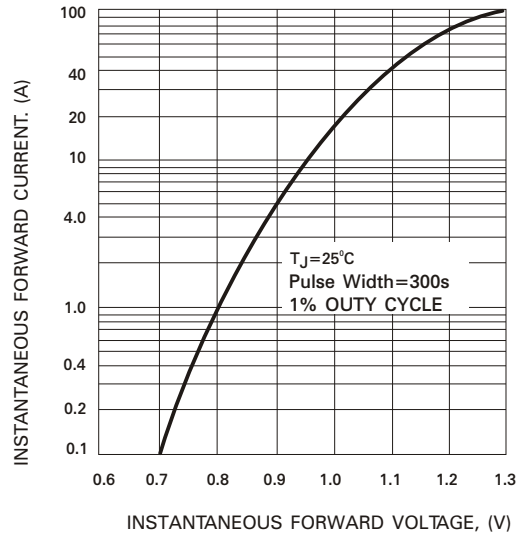


Fig.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

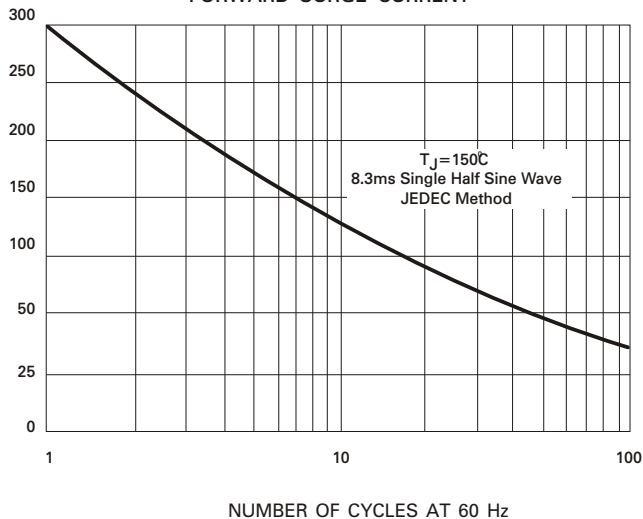


Fig.4 - TYPICAL REVERSE CHARACTERISTICS

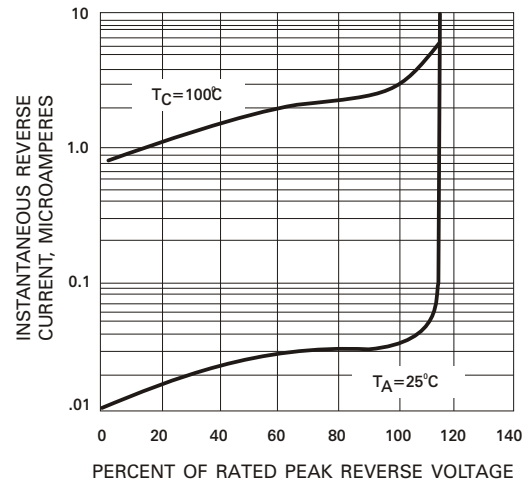


Fig.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

