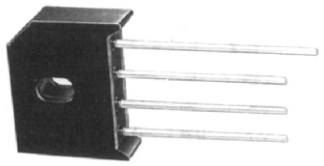
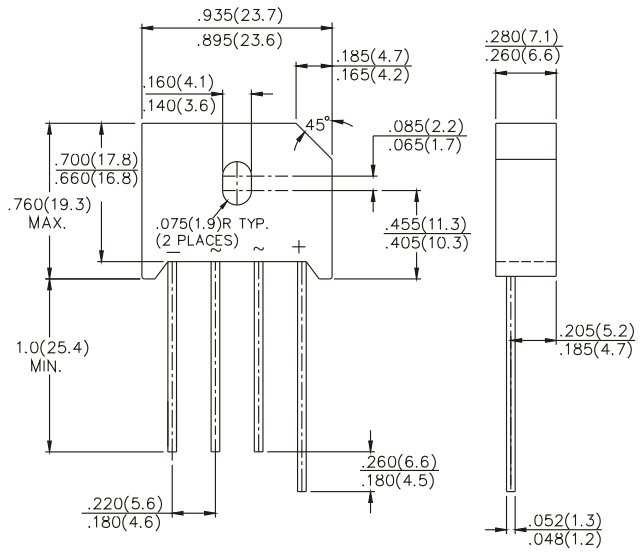
RS8 SERIES

SINGLE-PHASE SILICON BRIDGE

CHENG-YI
ELECTRONIC



VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
8.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

- Ideal for printed circuit board
- Realiable low cost construction utilizing molded plastic technique
- Plastic material has underwriters laboratory Flammibility Classification 94V-0
- Surge overload rating:300 amperes peak
- Mounting Torgue: 5 In. lb. max
- UL recognized file # E149311

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 @ T_C=100°C Output Current @ T_A=65°C	$V_{(AV)}$	8.0 8.0							A 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 @ T_A=25°C DC Blocking Voltage Per Element @ T_A=100°C	I_R	10 1							μA mA
Maximum Themal Resistance (Note)	$R\theta JC$	4.7							°C/W
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

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RATING AND CHARACTERISTICS CURVES
RS8 SERIES

Fig.1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

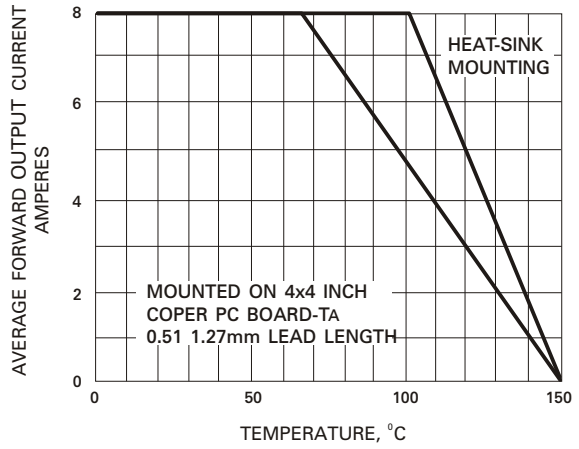

Fig.2 - TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

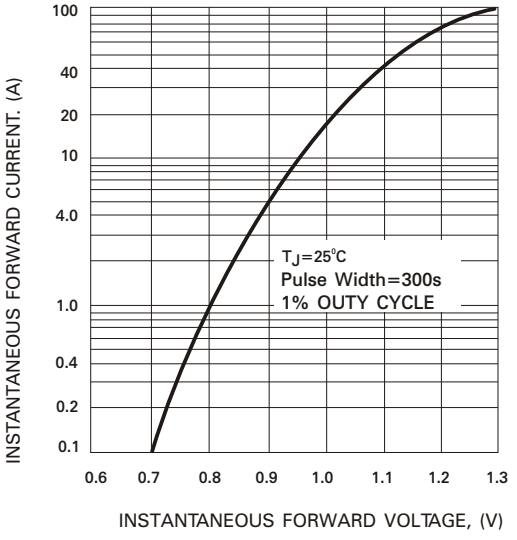

Fig.3 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

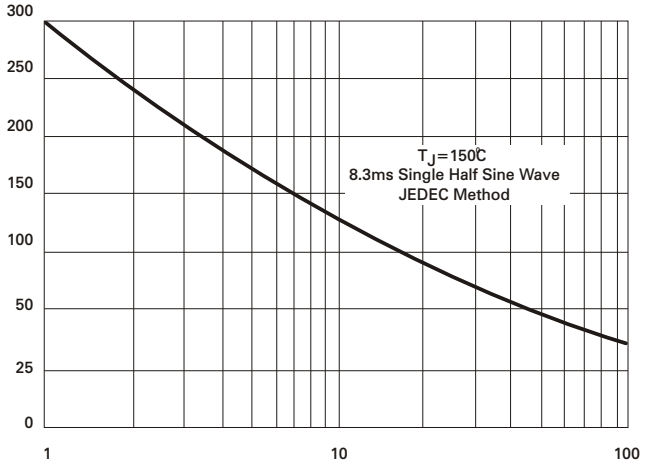

Fig.4 - TYPICAL REVERSE
CHARACTERISTICS

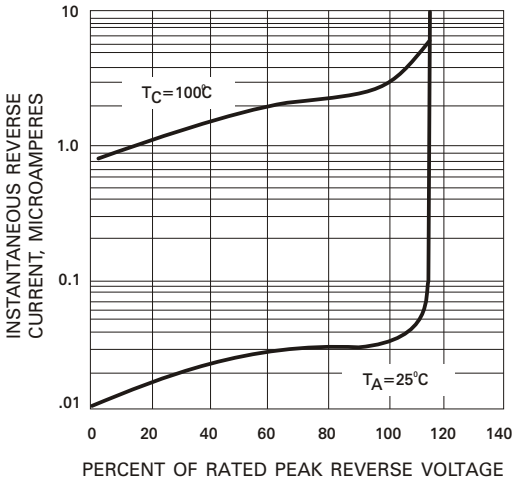

Fig.5 - TYPICAL JUNCTION CAPACITANCE
PER ELEMENT