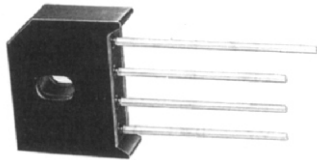


RS6 SERIES

SINGLE-PHASE SILICON BRIDGE



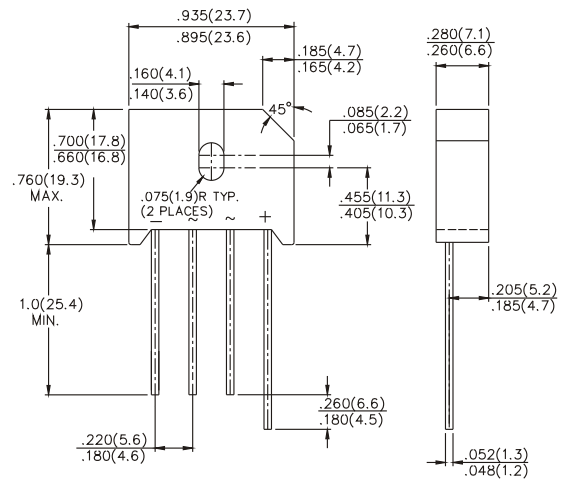
**CHENG-YI
ELECTRONIC**



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: 200 amperes peak
- Mounting Torque: 5 In. lb. max
- UL recognized file # E149311
- Lead solderable per MIL-STD-202 method 208
- Electrically isolated base 1800Volts

VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
6.0 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%.

		RS6005	RS601	RS602	RS604	RS606	RS608	RS610	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	$V_{(AV)}$					6.0			A
						6.0			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 3.0A 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 1)	$R \theta_{JC}$					4.7			°C/W
Operating Temperature Range	T_J					-55 to +125			°C
Storage Temperature Range	T_{STG}					-55 to +150			°C

RS6 SERIES

SINGLE-PHASE SILICON BRIDGE



**CHENG-YI
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RATING AND CHARACTERISTICS CURVES RS6 SERIES

Fig.1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

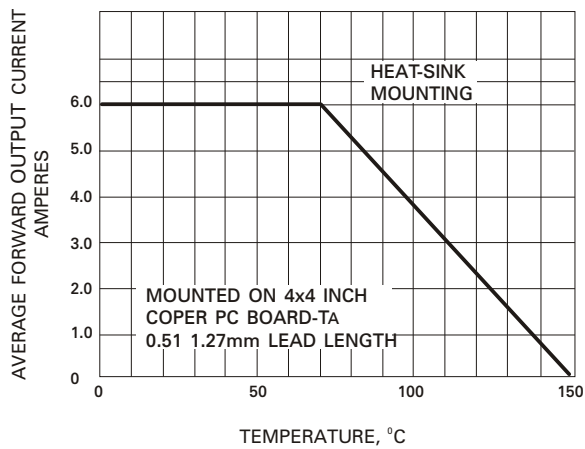


Fig.3 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

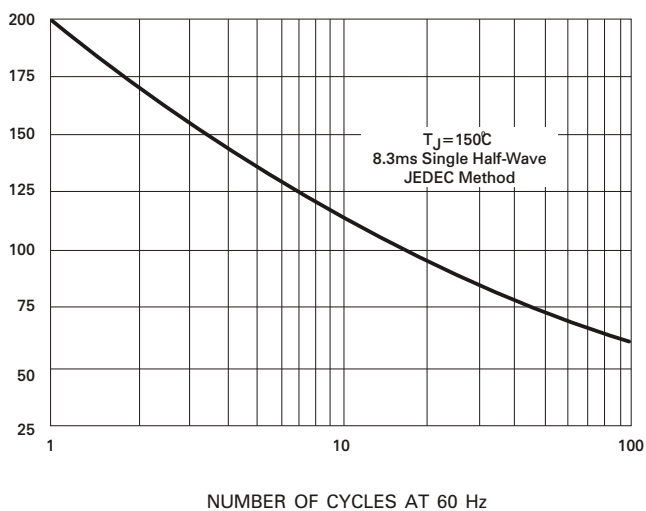


Fig.2 - TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

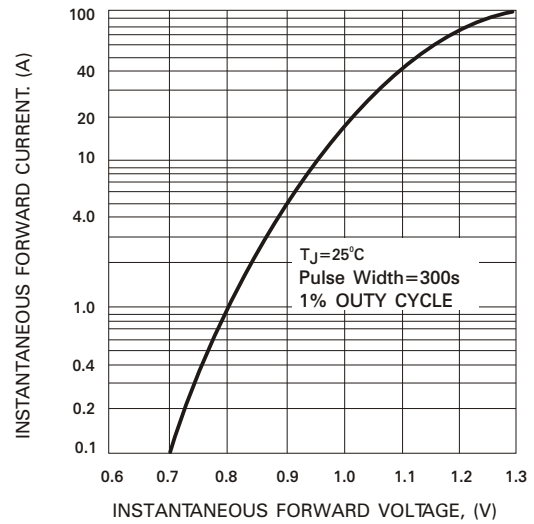


Fig.4 - TYPICAL REVERSE
CHARACTERISTICS

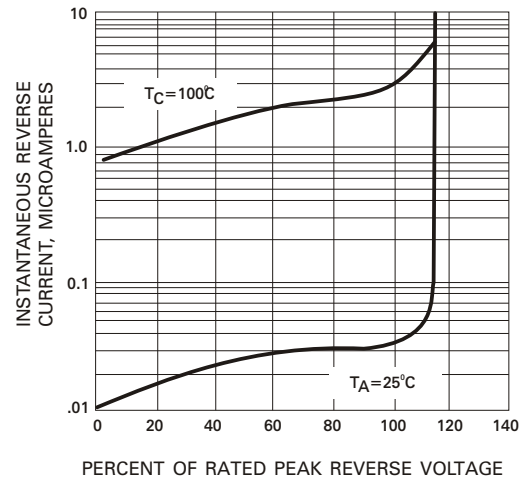


Fig.5 - TYPICAL JUNCTION CAPACITANCE
PER ELEMENT

