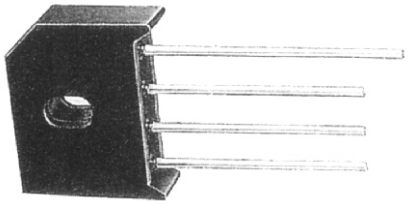
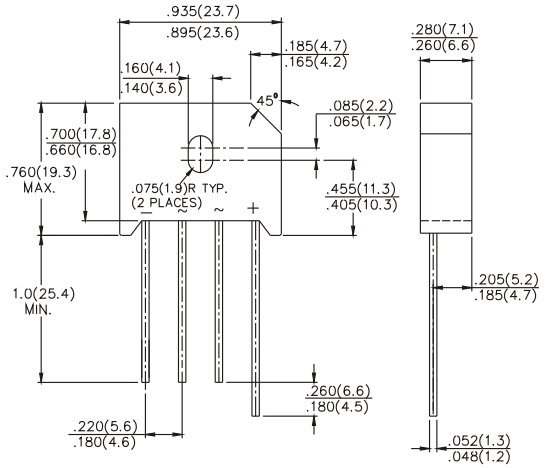
RS10 SERIES

SINGLE PHASE SILICON BRIDGE RECTIFIERS

CHENG-YI
ELECTRONIC

VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
10 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:200 amperes peak
- Mounting position:Any
- Mounting Torgue: 5 In. lb. max

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%.

		RS10005	RS1001	RS1002	RS1004	RS1006	RS1008	RS1010	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}	50	100	200	400	600	800	1000	V
Maximum Average Forward @ T_C=100°C Rectified Output Current @ T_A=65°C	$V_{(AV)}$	10							A A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	240							A
Maximum Instantanous Forward Voltage Drop Per Element at 10.0A	V_F	1.1							V
Maximum Reverse Leakage at rated @ T_A=25°C DC Block Voltage Per Element @ T_C=100°C	I_R	10 100							μA mA
Operating Temperature Range	T_J	-65 to +150							°C
Storage Temperature Range	T_{STG}	-65 to +150							°C

Notes:1.Thermal Resistance Junction to Case per diode.

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RATING AND CHARACTERISTICS CURVES
RS10 SERIES

Fig.1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

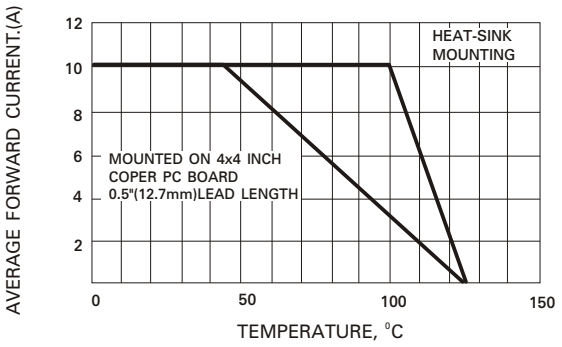

Fig.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

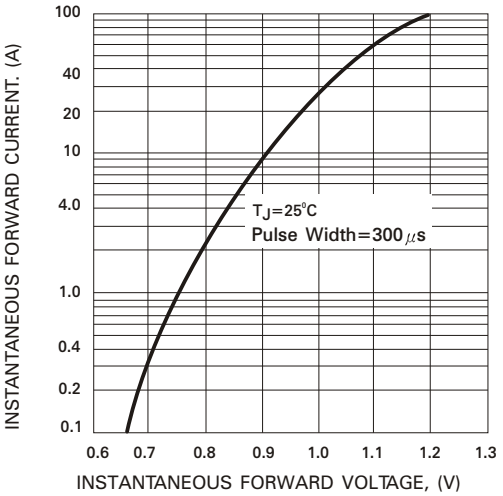

Fig.4 - TYPICAL REVERSE CHARACTERISTICS

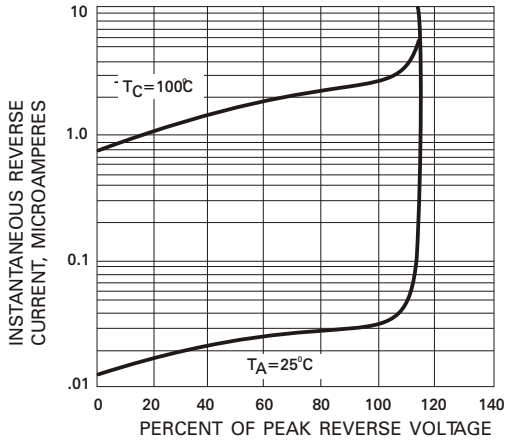

Fig.4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

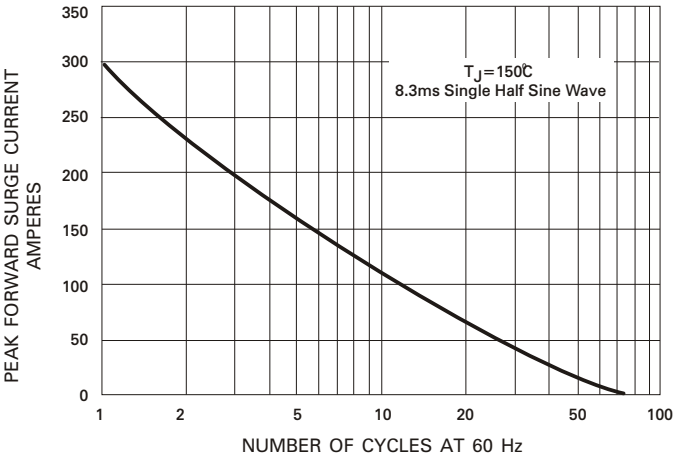

Fig.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT