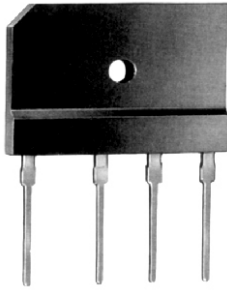


# RS1501 thru RS1507

## SINGLE-PHASE SILICON BRIDGE



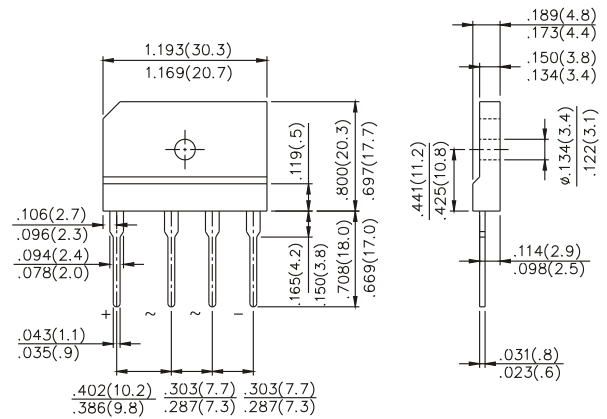
**CHENG-YI  
ELECTRONIC**



### FEATURES

- Low leakage
- Low forward voltage
- Mounting Position: Any
- Surge overload rating: 250 amperes peak
- Silver-plated copper leads

VOLTAGE RANGE  
50 TO 1000 VOLTS  
CURRENT  
15.0 Amperes



### 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%.

MAXIMUM RATINGS (At T<sub>A</sub>=25°C unless otherwise noted)

RATINGS		RS1501	RS1502	RS1503	RS1504	RS1505	RS1506	RS1507	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current at @ T <sub>C</sub> =50°C	I <sub>O</sub>	15							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	250							A
Operating and Storage Temperature Range	T <sub>J</sub> T <sub>STG</sub>	-55 to +150							°C
Maximum Forward Voltage drop per element of 7.5A DC	V <sub>F</sub>	1.05							V
Maximum Reverse Current at Rated DC Blocking Voltage per element	@ T <sub>A</sub> =25°C	10							μA
	@ T <sub>A</sub> =100°C	0.2							mA

# RS1501 thru RS1507

## SINGLE PHASE GLASS BRIDGE



**CHENG-YI  
ELECTRONIC**

### RATING AND CHARACTERISTICS CURVES RS1501 THRU RS1507

Fig. 1 - MAXIMUM FORWARD SURGE CURRENT

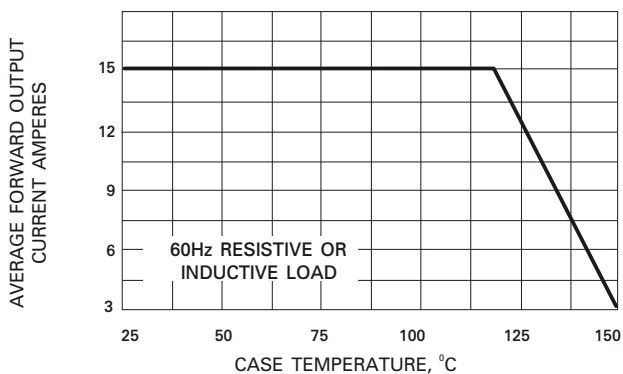


Fig. 4 - MAXIMUM NON-REPETITIVE SURGE CURRENT

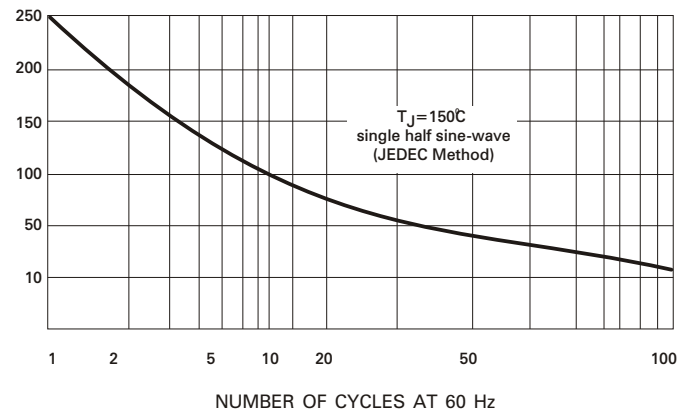


Fig. 2 - TYPICAL FORWARD CHARACTERISTICS

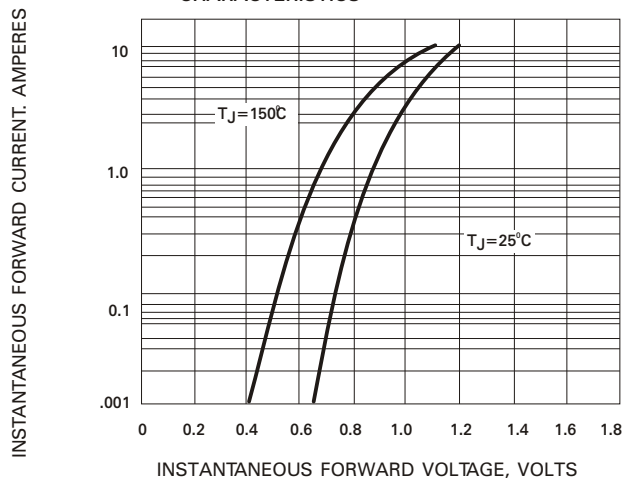


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS

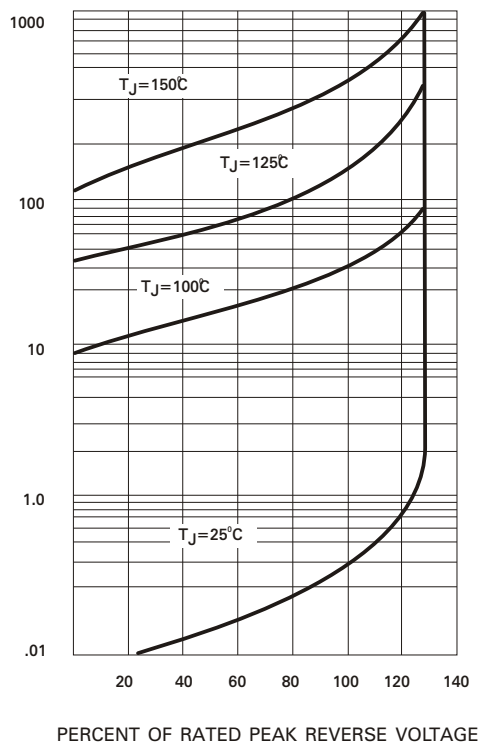


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

