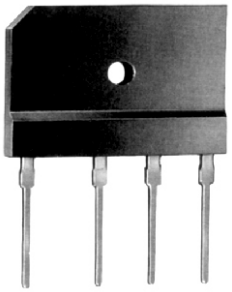
RS1501 thru RS1507

SINGLE-PHASE SILICON BRIDGE

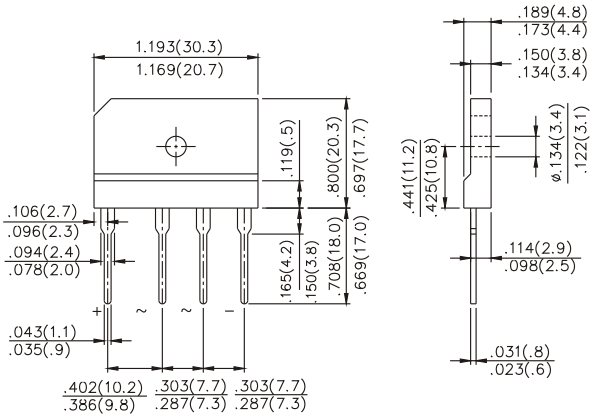
CHENG-YI
ELECTRONIC

VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
15.0 Amperes



FEATURES

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



Dimensions in inches and (millimeters)

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_A=25°C unless otherwise noted)

RATINGS			RS1501	RS1502	RS1503	RS1504	RS1505	RS1506	RS1507	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 Output Current at @ T_C=50°C		I_O	15							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	250							A
Operating and Storage Temperature Range		T_J T_{STG}	-55 to +150							°C
Maximum Forward Voltage drop per element of 7.5A DC		V_F	1.05							V
Maximum Reverse Current at Rated DC Blocking Voltage per element	@ T_A=25°C	I_R	10							μA
	@ T_A=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

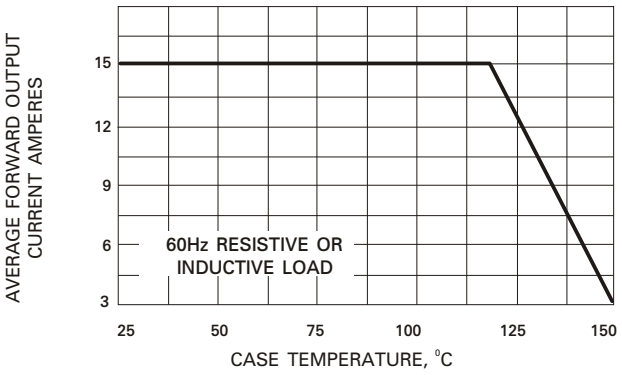


Fig. 2 - TYPICAL FORWARD CHARACTERISTICS

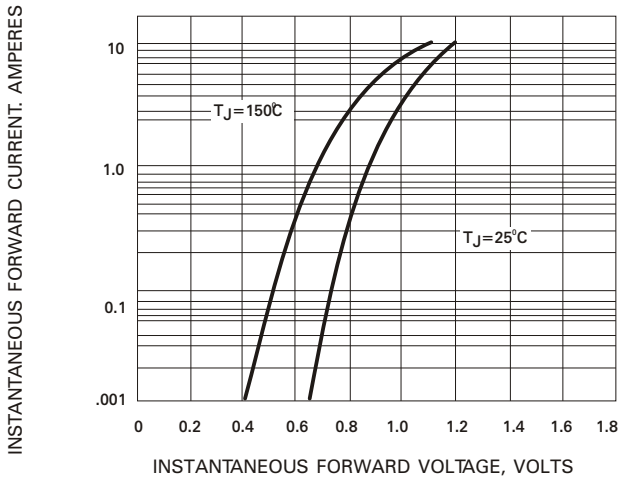


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

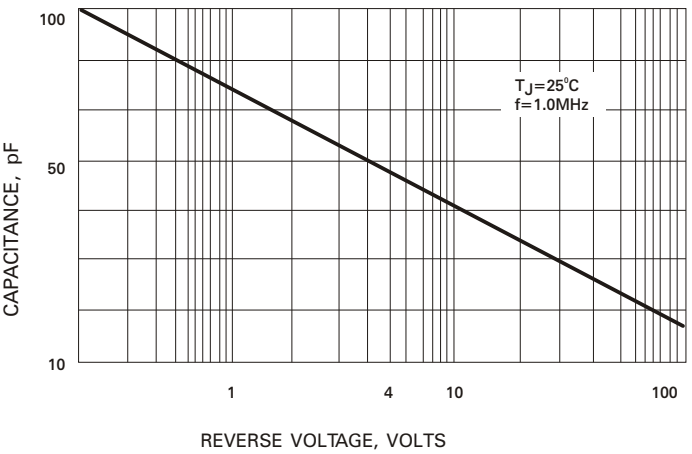


Fig. 4 - MAXIMUM NON-REPETITIVE SURGE CURRENT

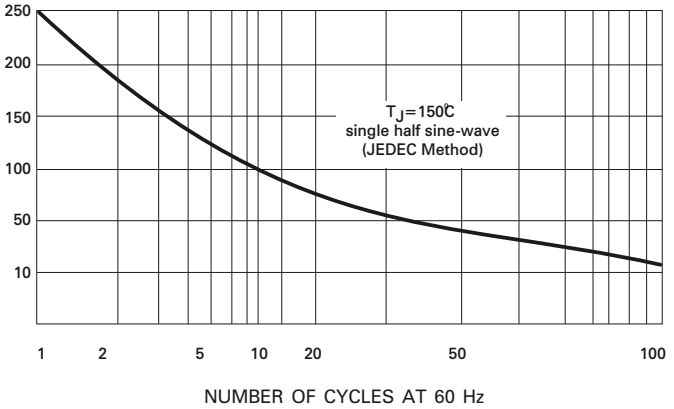


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS