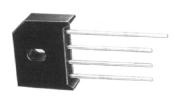
RS6 SERIES

SINGLE-PHASE SILICON BRIDGE

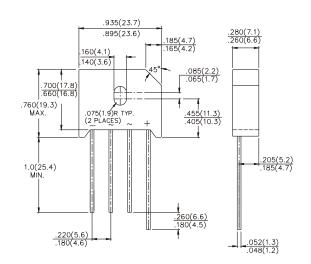




VOLTAGE RANGE 50 TO 1000 VOLTS CURRENT 6.0 Amperes

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 Torgue: 5 In. lb. max
- UL recognized file # E149311
- Lead solderable per MIL-STD-202 mathod 208
- Electrically isolated base 1800Volts



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	٧
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	٧
Maximum Average Forward @ T _C =100°C Output Current @ T _A =65°C	V _(AV)	6.0 6.0							A A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200							А
Maximum DC Forward Voltage drop per element at 3.0A DC	V _F	1							٧
Maximum DC Reverse Current at rated @ T _A =25°C DC Blocking Voltage Per Element @ T _A =100°C	I _R	10							μ A
Maximum Themal Resistance (Note 1)	$R\theta JC$	4.7							mA °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



RATING AND CHARACTERISTICS CURVES RS6 SERIES

Fig.1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

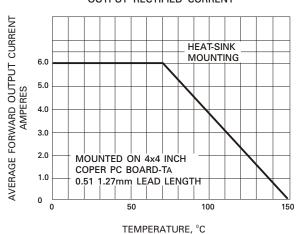
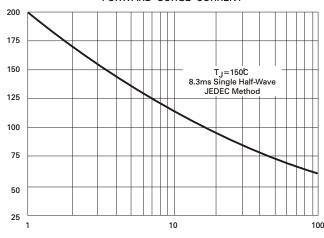


Fig.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz

Fig.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

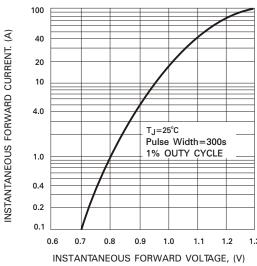
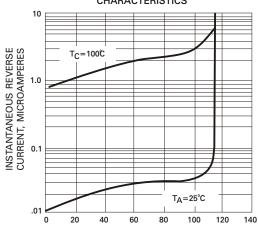


Fig.4 - TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE

Fig.5 - TYPICAL JUNCTION CAPACITANCE

