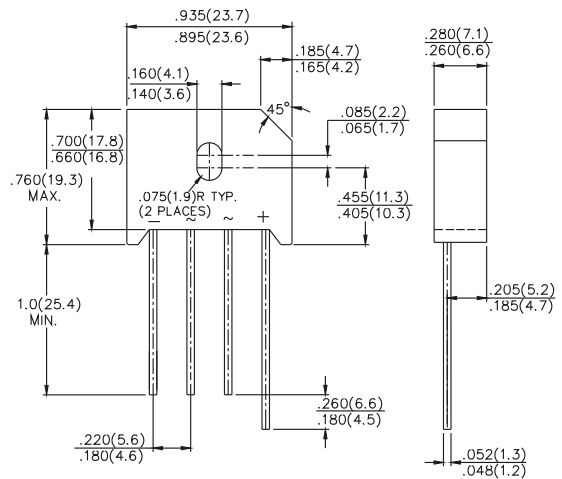
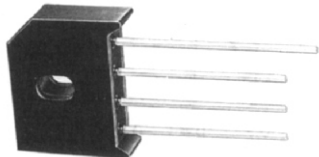




MASTER INSTRUMENT CORPORATION

RS601 THRU RS610

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 6 Amperes



Dimensions in inches and (millimeters)

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

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
		@ $T_C=100^\circ C$							A
		@ $T_A=65^\circ C$							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							$^\circ C/W$
Operating Temperature Range	T_J	-55 to +125							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$



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Fig.1 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

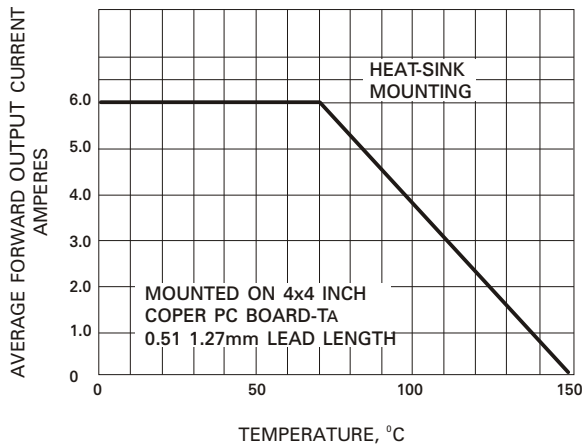


Fig.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

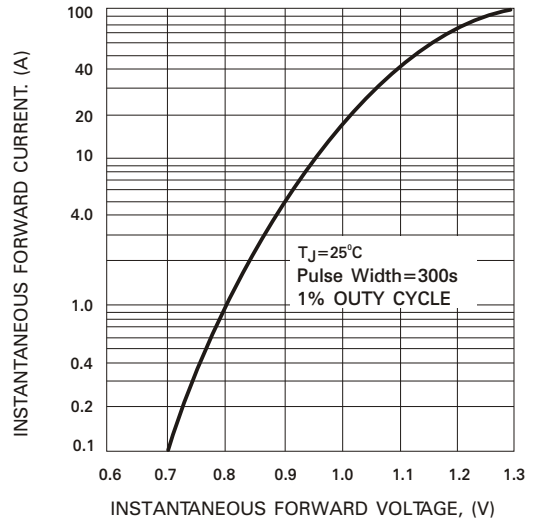


Fig.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

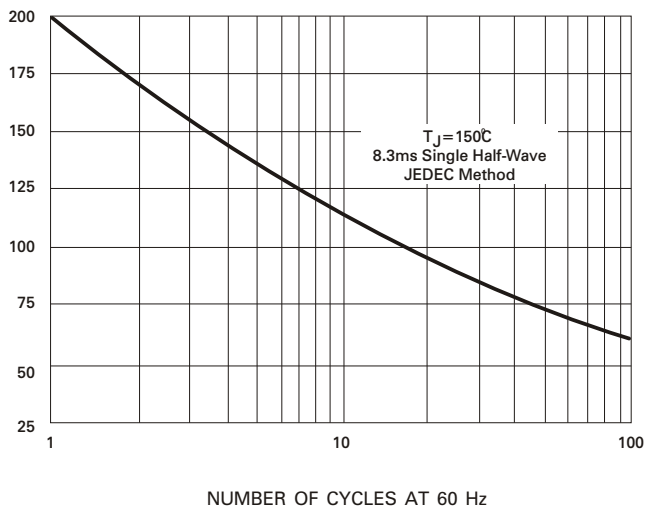


Fig.4 - TYPICAL REVERSE CHARACTERISTICS

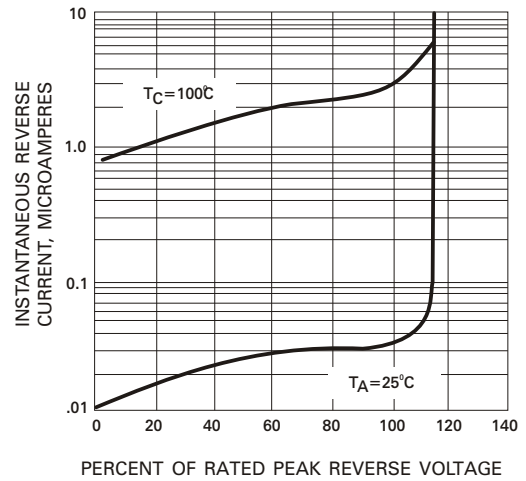


Fig.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

