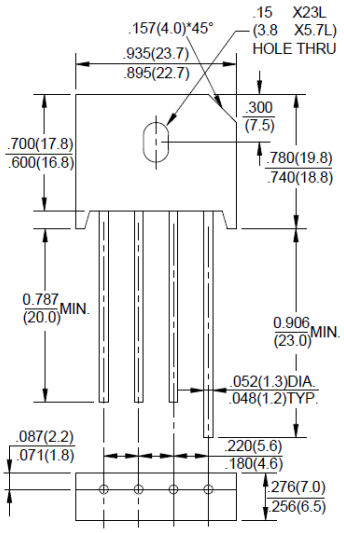
RS601 THRU RS607

SINGLE – PHASE BRIDGE RECTIFIERS

Reverse Voltage – 50 to 1000 V

Forward Current – 6.0 A

RS-6



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 Position: Any

Absolute Maximum Ratings and Characteristics

Ratings at 25°Cambient temperature unless otherwise specified. Resistive or inductive load , 60Hz, For capacitive load, derate current by 20%.

Parameter	Symbols	RS601	RS602	RS603	RS604	RS605	RS606	RS607	Units
Repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS bridge input voltage	V_{RMS}	35	70	140	280	420	560	700	V
DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average forward rectified current T_A = 65℃	$I_{F(AV)}$	6							A
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load	I_{FSM}	175							A
Instantaneous forward voltage drop per element at 6.0 A	V_F	1							V
DC reverse leakage at rated T_A = 25 ℃ DC blocking voltage per element T_A = 100℃	I_R	10 200							µA µA
Operating and storage temperature range	T_J, T_{Stg}	-55 to +150							℃

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FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

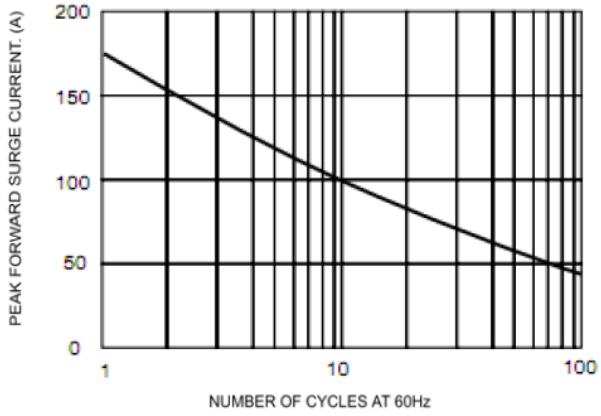

FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

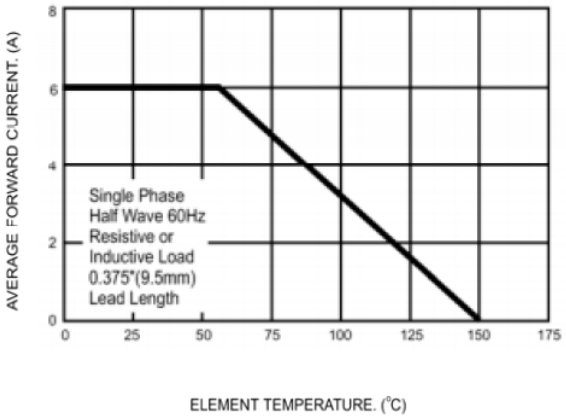

FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

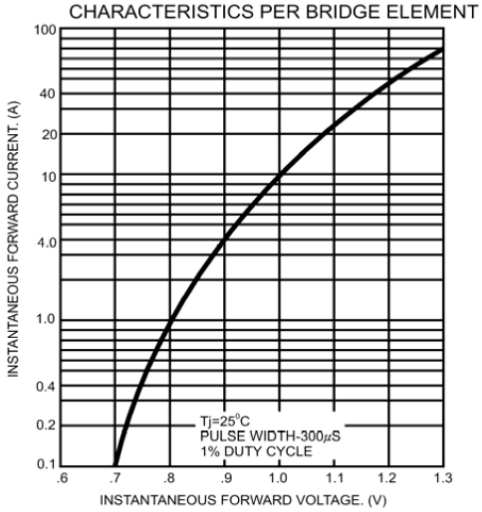

FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT