



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

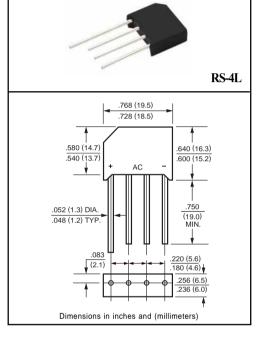
VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 200 amperes peak
- * Mounting position: Any
- * Weight: 4.8 grams

MECHANICAL DATA

- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	MDA970G1	MDA970G2	MDA970G3	MDA970G5	MDA970G6	MDA970G8	MDA970G10	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 75°C	lo	4.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave	1esm 200							Amps	
superimposed on rated load (JEDEC method)	IFSM	200							
Operating Temperature Range	TJ	-55 to + 150							° C
Storage Temperature Range	Tstg	-55 to + 150							٥C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	MDA970G1 MDA970G2 MDA970G3 MDA970G5 MDA970G6 MDA970G8 MDA970G10	UNITS		
Maximum Forward Voltage Drop per Bridge Element at 6.28A DC		Vf	1.1			
DC Blocking Voltage per element	@TA = 100°C	1	mAmps			

RATING AND CHARACTERISTIC CURVES (MDA970G1 THRU MDA970G10)

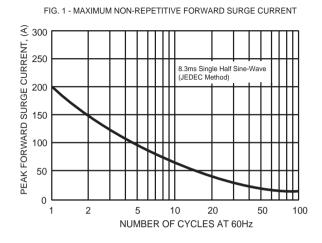


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE AVERAGE FORWARD OUTPUT CURRENT, (A) 5 4 3 2 Single Phase Half Wave 60Hz Indutive or Resistive Load 1 0 0 50 100 150 CASE TEMPERATURE, (°C)

FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

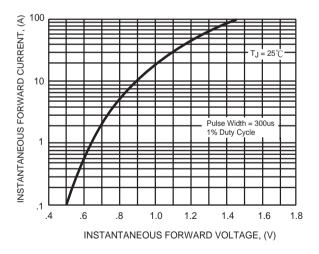


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

