

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

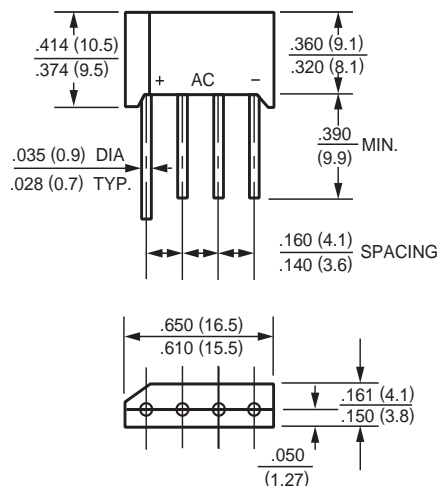
- * Low cost
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Weight: 1.26 grams

MECHANICAL DATA

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



RS-1



Dimensions in inches and (millimeters)

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	MDA200G	MDA201G	MDA202G	MDA204G	MDA206G	MDA208G	MDA210G	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Output Current at TA = 50°C	I _O	2.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50								Amps
Typical Thermal Resistance from junction to case	R _{θJC}	13								°C/W
Typical Thermal Resistance from junction to ambient	R _{θJA}	40								
Operating Temperature Range	T _J	-55 to + 150								°C
Storage Temperature Range	T _{STG}	-55 to + 150								°C

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

CHARACTERISTICS	SYMBOL	MDA200G	MDA201G	MDA202G	MDA204G	MDA206G	MDA208G	MDA210G	UNITS	
Maximum Forward Voltage Drop per Bridge Element at 3.14A DC	V _F	1.1								Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	@ TA = 25°C	5.0								uAmps
	@ TA = 100°C	1								mAmps

Note: "Fully ROHS compliant", "100% Sn plating(Pb-free).

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RATING AND CHARACTERISTIC CURVES (MDA200G THRU MDA210G)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

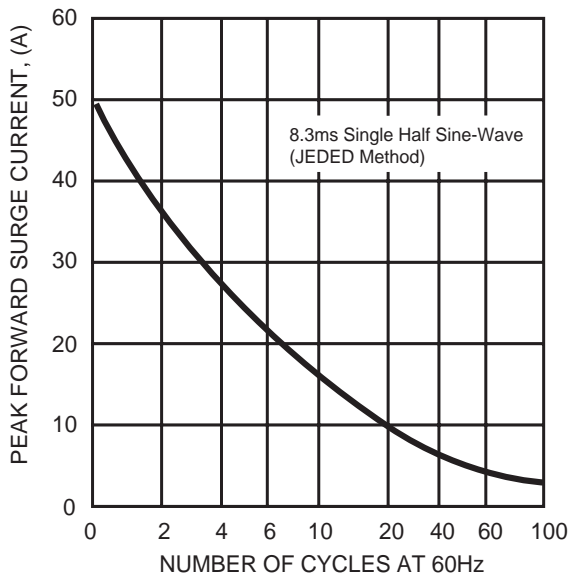


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

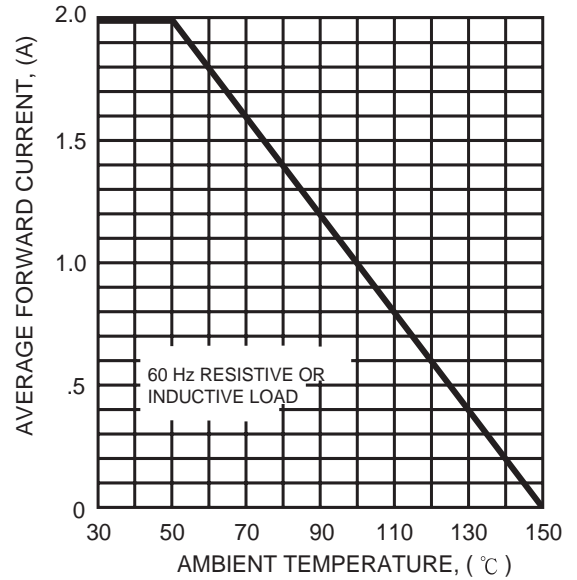


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

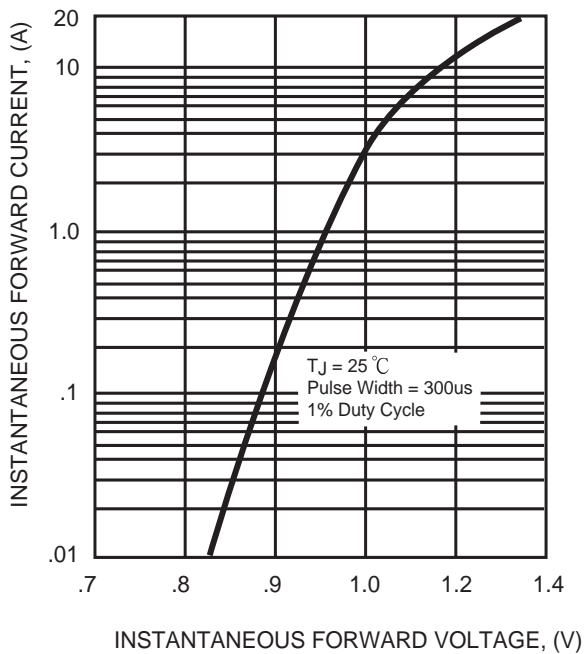


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

