

# MDA100G **THRU** MDA110G

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

### **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

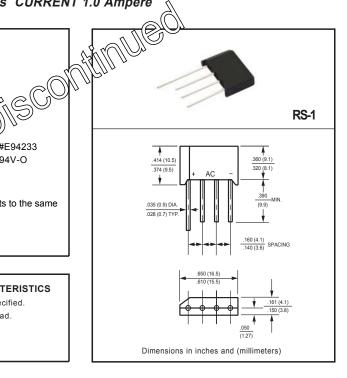
#### **DISCONTINUED-**

"This series is replaced by the RS10X series that meets to the same fit and function parameters.

The RS10X series is preferred for PCB assembly."

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

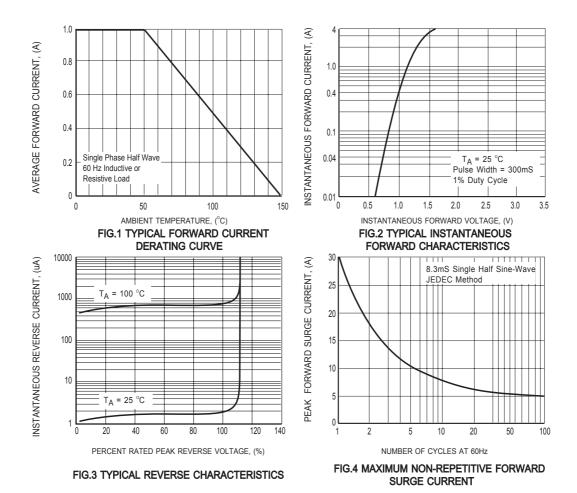
RATINGS	SYMBOL	MDA100G	MDA101G	MDA102G	MDA104G	MDA106G	MDA108G	MDA110G	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 50°C	I <sub>O</sub>	1.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	I <sub>FSM</sub> 30						Amps	
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	15							°C/W
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	50							
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150							٥C

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

[	CHARACTERISTI	SYMBOL	MDA100G	MDA101G	MDA102G	MDA104G	MDA106G	MDA108G	MDA110G	UNITS	
I	Maximum Instantaneous Forward Vol	V <sub>F</sub>	1.3							Volts	
ſ	maximum 20 Hoveron Carrent	@T <sub>A</sub> = 25°C	- IR	5.0							
1		@T <sub>A</sub> = 100°C					1000				uAmps

NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

# RATING AND CHARACTERISTICS CURVES (MDA100G THRU MDA110G)



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