

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

VOLTAGE RANGE 50 to 1000 Volts CURRENT 0.5 Ampere

FEATURES

- * Surge overload rating - 30 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 0.5 gram

MECHANICAL DATA

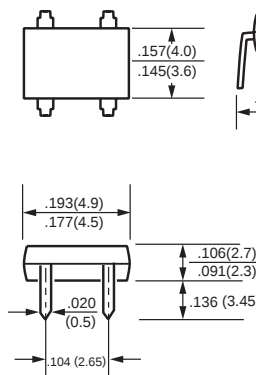
- * Epoxy : Device has UL flammability classification 94V-0
- * UL listed the recognized component directory, file #E94233

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%.



MD



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

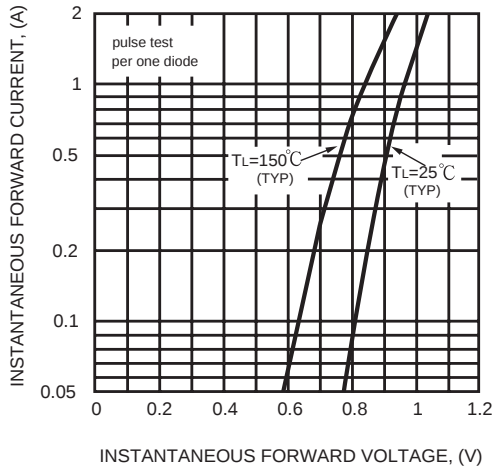
RATINGS	SYMBOL	MD1	MD2	MD3	MD4	MD5	MD6	MD7	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Rectified Current at $T_A = 30^\circ\text{C}$	I_o	0.5							Amp
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							Amps
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150							$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

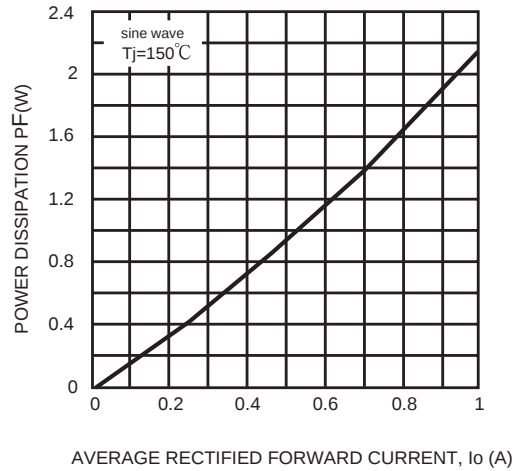
CHARACTERISTICS	SYMBOL	MD1	MD2	MD3	MD4	MD5	MD6	MD7	UNITS
Maximum Forward Voltage Drop per Bridge Element at 0.5A DC	V_F	1.05							Volts
Maximum Reverse Current at rated	I_R	5.0							μAmps
DC Blocking Voltage per element		0.5							mAmps

RATING AND CHARACTERISTIC CURVES (MD1 THRU MD7)

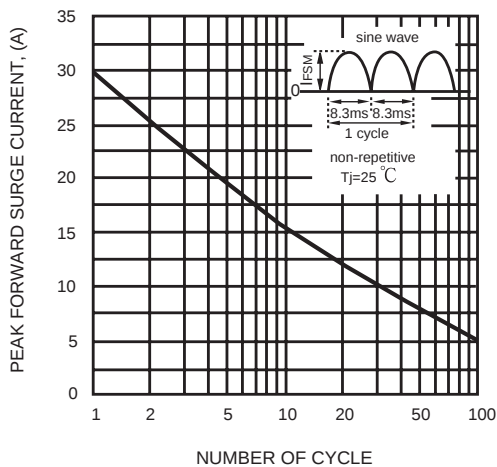
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



POWER DISSIPATION



SURGE FORWARD CURRENT CAPABILITY



TYPICAL FORWARD CURRENT DERATING CURVE

