



MR850 thru MR856

PLASTIC SILICON RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 3.0 Amperes

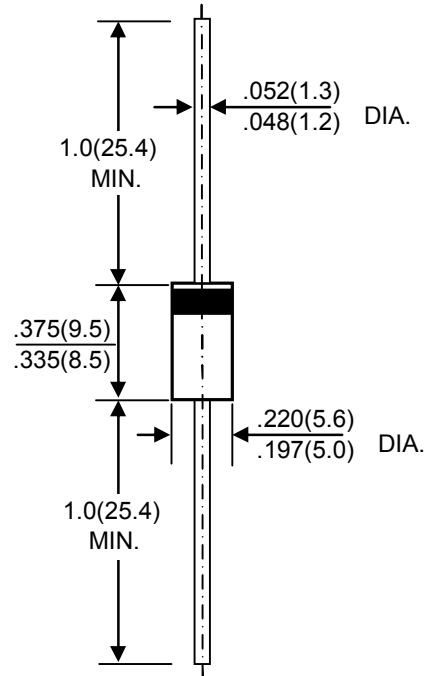
FEATURES

- Fast switching for high efficiency
- Low cost
- Diffused junction
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces , 1.1 grams
- Mounting position: Any

DO-27



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	MR850	MR851	MR852	MR854	MR856	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	V	
Maximum RMS Voltage	VRMS	35	70	140	280	420	V	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	V	
Maximum Average Forward Rectified Current @TA =80°C	I(AV)	3.0						A
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions)	IFSM	100						A
Maximum Forward Voltage at 3.0A DC	VF	1.25						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	10.0						µA
Reverse Recovery Time From IF=1A to VR=30V	Trr	200						ns
Typical Thermal Resistance (Note1)	RθJA	28						°C/W
Operating Temperature Range	TJ	-65 to +125						°C
Storage Temperature Range	TSTG	-65 to +150						°C

NOTES:1.Thermal resistance junction of lead.