BY500-50 thru BY500-1000

PLASTIC SILICON RECTIFIERS

REVERSE VOLTAGE - **50** to **1000** Volts
FORWARD CURRENT - **5.0** Amperes

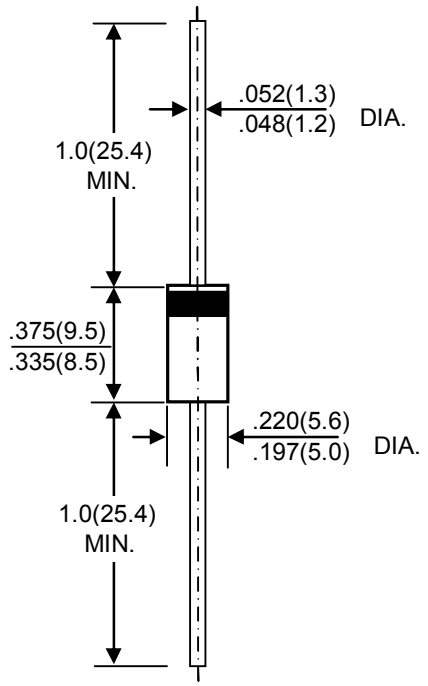
FEATURES

- 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℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	BY500-50	BY500-100	BY500-200	BY500-400	BY500-600	BY500-800	BY500-1000	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A =60℃	$I_{(AV)}$	5.0							A
Surge Forward Current Half Cycle 50Hz Starting From Tj=25℃	I_{FSM}	200							A
Maximum Forward Voltage at 5.0A DC	V_F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0							μA
Reverse Recovery Time From IF=1A to VR=30V	Trr	150				250		500	ns
Typical Thermal Resistance (Note1)	$R_{\theta JA}$	60							K/W
Operating Temperature Range	T_J	150							℃
Storage Temperature Range	T_{STG}	-65 to +175							℃

NOTES:1.Thermal resistance junction of lead.