BY396 THRU BY399

FAST RECOVERY PLASTIC RECTIFIER

VOLTAGE：100-800V **CURRENT：3.0A**

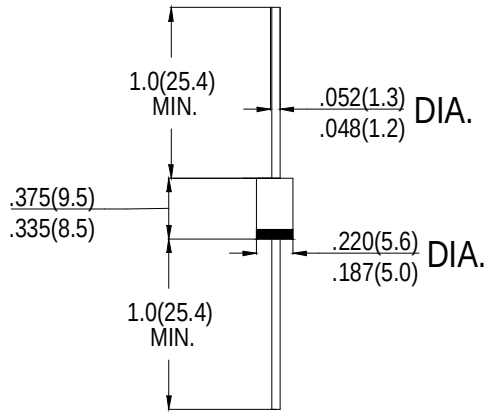
FEATURES

- Fast switching
- Low leakage
- Low forward voltage drop
- High current capability
- High surge capability
- High reliability

MECHANICAL DATA

- ***Case*:** Molded plastic
- ***Epoxy*:** UL94V-0 rate flame retardant
- ***Lead*:** MIL-STD- 202E, Method 208 guaranteed
- ***Polarity*:**Color band denotes cathode end
- ***Mounting position*:** Any
- ***Weight*:** 1.18 grams

DO-27



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	BY396	BY397	BY398	BY399	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	800	V
Maximum RMS Voltage	V_{RMS}	70	140	280	560	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	800	V
Maximum Average Forward rectified Current at T_A=75°C	I_o	3.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	125				A
Maximum Instantaneous forward Voltage at 3.0A DC	V_F	1.3				V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A=25°C	I_R	10.0				μA
Maximum Full Load Reverse Current Full Cycle Average,.375”(9.5mm) lead length at T_L=55°C		100				
Maximum Reverse Recovery Time (Note 1)	t_{rr}	150			500	nS
Typical Junction Capacitance (Note 2)	C_J	40				pF

Notes: 1.Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0 volts

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