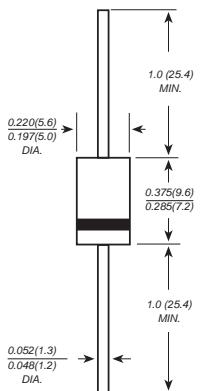


BY396 THRU BY399

FAST RECOVERY RECTIFIERS

Reverse Voltage - 100 to 800 Volts Forward Current - 3.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
- ◆ 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: DO-201AD molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 1.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	BY396	BY397	BY398	BY399	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	100	200	400	800	VOLTS
Maximum RMS voltage	V _{RMS}	70	140	280	560	VOLTS
Maximum DC blocking voltage	V _{DC}	100	200	400	800	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=75°C	I _(AV)	3.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200.0				Amps
Maximum instantaneous forward voltage at 3.0A	V _F	1.3				Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R	10.0 100.0				mA
Maximum reverse recovery time (NOTE 1)	t _{rr}	500				ns
Typical junction capacitance (NOTE 2)	C _J	60.0				pF
Typical thermal resistance (NOTE 3)	R _{QA}	20.0				°C/W
Operating junction and storage temperature range	T _{J,T_{STG}}	-65 to +150				°C

Note: 1. Reverse recovery condition I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES BY396 THRU BY399

