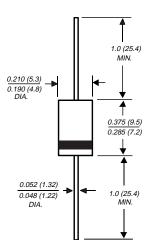
BY396P THRU BY399P

SOFT RECOVER FAST - SWITCHING PLASTIC RECTIFIER

Reverse Voltage - 100 to 800 Volts

Forward Current - 3.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge current capability
- Construction utilizes void-free molded plastic technique
- ◆ 3.0 Ampere operation at T_A=50°C with no thermal runaway
- ◆ Fast switching for high efficiency
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC 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: 0.04 ounce, 1.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	BY396P	BY397P	BY398P	BY399P	UNITS
Maximum repetitive peak reverse voltage	Vrrm	100	200	400	800	Volts
Maximum RMS voltage	VRMS	70	140	280	560	Volts
Maximum DC blocking voltage	VDC	100	200	400	800	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead lengths at Ta=50°C	I(AV)	3.0				Amps
Peak forward surge current 10ms single half sine-wave superimposed on rated load at Ta=50°C	IFSM	100.0				Amps
Maximum repetitive peak forward surge (NOTE 1)	IFRM	10.0				Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.25			Volts	
Maximum DC reverse current TA= 25°C at rated DC blocking voltage TA=100°C	IR	10.0 500.0				μА
Maximum reverse recovery time (NOTE 2)	t _{rr}	500.0			ns	
Maximum forward recovery time at 100mA, $di/d = 50A/\mu s$	tfr	1.0			μs	
Typical junction capacitance (NOTE 3)	CJ	28.0			pF	
Typical thermal resistance (NOTE 4)	R⊝JA	22.0			°C/W	
Operating junction temperature range	TJ	-50 to +125				°C
Storage temperature range	Tstg	-50 to +150				°C

NOTES:

- (1) Repetitive peak forward surge current at f<15 KHz
- (2) Reverse recovery test conditions: IF=10mA, IR=10mA, Irr=1.0mA
- (3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (4) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length with both leads to heat sink



RATINGS AND CHARACTERISTIC CURVES BY396P THRU BY399P

