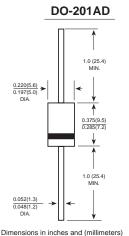
BY396 THRU BY399

FAST RECOVERY RECTIFIERS

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



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: 260°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	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	I _(AV) 3.0					Amps
0.375"(9.5mm) lead length at Ta=75℃						
Peak forward surge current						
8.3ms single half sine-wave superimposed on	IFSM 200.0				Amps	
rated load (JEDEC Method)						
Maximum instantaneous forward voltage at 3.0A	VF	1.3				Volts
Maximum DC reverse current Ta=25℃	10.0				μA	
at rated DC blocking voltage Ta=100℃	l _R 100.0				μΛ	
Maximum reverse recovery time (NOTE 1)	trr	500				ns
Typical junction capacitance (NOTE 2)	Cı	60.0				pF
Typical thermal resistance (NOTE 3)	RθJA	20.0				°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150				°C

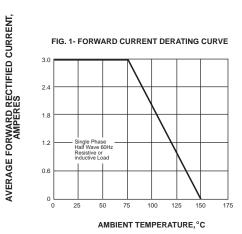
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

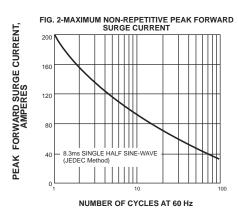
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

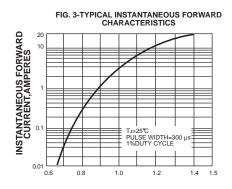
3. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

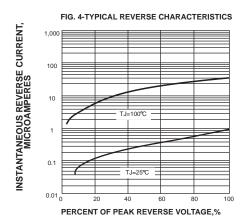


RATINGS AND CHARACTERISTIC CURVES BY396 THRU BY399

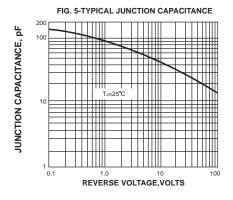


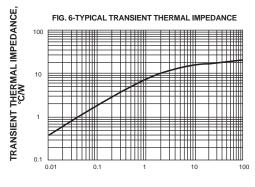












t,PULSE DURATION,sec.

