BY396 THRU BY399

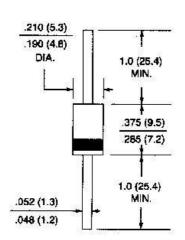
SOFT RECOVERY, FAST SWITCHING PLASTIC RECTIFIER VOLTAGE - 100 to 800 Volts CURRENT - 3.0 Amperes

FEATURES

- High surge current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Void-free molded plastic package
- 3.0 Ampere operation
 - at $T_A=55$ with no thermal runaway
- Fast switching for high efficiency
- Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic Terminals: Plated Axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color Band denotes end Mounting Position: Any Weight: .04 ounce, 1.1gram



DO-201AD

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

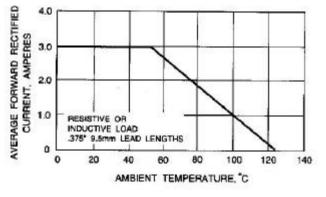
Resistive or inductive load.

	SYMBOLS	BY396	BY397	BY398	BY399	UNITS
Maximum Recurrent 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	1 _(AV)	3.0				Amps
.375"(9.5mm) lead lengths at T _A =50						
Peak Forward Surge Current 10ms single half sine-	1 _{FSM}	100.0				Amps
wave superimposed on rated load at $T_A=25$						
Maximum Repetitive Peak Forward Surge (Note 1)	1 _{FRM}	10.0				Amps
Maximum Instantaneous Forward Voltage at 3.0A	VF	1.30				Volts
Maximum DC Reverse Current T _A =25	I _R	10.0				А
At Rated DC Blocking Voltage T _A =100		500				
Maximum Reverse Recovery Time (Note 3) TJ=25	T _{RR}	150				ns
Typical Junction Capacitance (Note 2)	CJ	60				pf
Typical Thermal Resistance (Note 4)	R JA	22.0				/W
Operating Temperature Range	TJ	-50 to +125				
Storage Temperature Range	T _{STG}	-50 to +150				

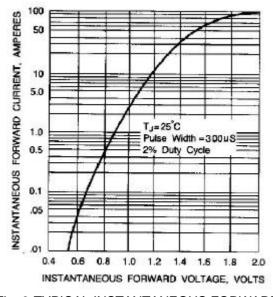
NOTES:

- 1. Repetitive Peak Forward Surge Current at f<15HKz.
- 2. Measured at 1 MHz. And applied reverse voltage of 4.0 volts.
- 3. Reverse Recovery Test Conditions; I_F=0.5A,I_R=1.0A,Irr=0.25A.
- 4. Thermal Resistance from Junction to Ambient at .375" lead lengths with both leads to heat sink.

RATING AND CHARACTERISTIC CURVES BY396 THRU BY399

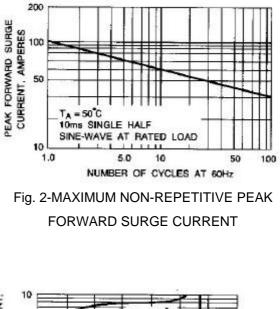


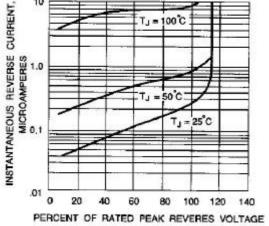






CHARACTERISTICS







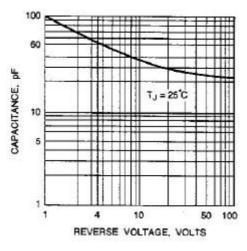


Fig. 5-TYPICAL JUNCTION CAPACITANCE