BY396 thru BY399

SOFT RECOVERY, FAST SWITCHING **PLASTIC RECTIFIER**





VOLTAGE-100 TO 800 Volts **CURRENT -3.0 Amperes**

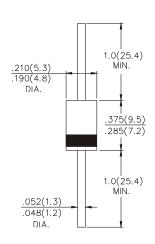
FEATURE

- · High surge current capability
- · Plastic has Underwriters Laboratory. Flammability classification 94V-O
- · Void-free molded plastic package.
- · 3.0 Ampere operation at T_A=50°C with no thermal runaway.
- · Fast switching for high efficiency
- · Exceeds environmental standards of MIL-STD-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: 0.4 ounce, 1.1 gram

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

	BY396	BY397	BY398	BY399	UNITS
Vrrm	100	200	400	800	Volts
Vrms	70	140	280	560	Volts
V _{DC}	100	200	400	800	Volts
I(AV)	3.0				Amps
IFSM	100.0				Amps
IFRM	10.0				Amps
VF	1.3				Volts
I _D	10.0				μ Α
IK	500				
T _{RR}	150			nS	
Cı	28.0				pF
$R \theta JA$	22.0				°C / W
TJ	-50 to +125				°C
Тѕтс	-50 to +150				°C
	VRMS VDC I(AV) IFSM IFRM VF IR TRR CJ R \theta JA TJ	VRM 100 VRMS 70 VDC 100 I(AV) IFSM IFRM VF IR TRR CJ R θ JA TJ	VRRM 100 200 VRMS 70 140 VDC 100 200 I[AV] 3 IFSM 10 IFRM 10 VF 1 IR 56 TRR 1 CJ 28 R θ JA 22 TJ -50 to	VRRM 100 200 400 VRMS 70 140 280 VDC 100 200 400 I(AV) 3.0 IFSM 100.0 VF 1.3 IR 10.0 TRR 150 CJ 28.0 R θ JA 22.0 TJ -50 to +125	V _{RRM} 100 200 400 800 V _{RMS} 70 140 280 560 V _{DC} 100 200 400 800 I _(AV) 3.0 I _{FSM} 100.0 V _F 1.3 I _R 10.0 T _R 150 C _J 28.0 R θ JA 22.0 T _J -50 to +125

Notes: 1. Repetitive Peak Forward Surge Current at f<15KHz.

- 2. Measured at 1MHz and applied reverse voltage of 4.0 volts.
- 3. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A.
 4. Thermal Resistance from Junction to Ambient at .375" (9.5mm) lead lengths with both leads to heat sink.

BY396 thru BY399

SOFT RECOVERY, FAST SWITCHING PLASTIC RECTIFIER



RATING AND CHARACTERISTICS CURVES BY396 THRU BY399

Fig.1 - FORWARD CURRENT DERATING CURVE

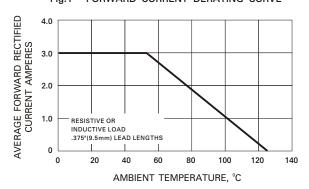


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

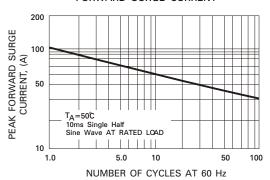


Fig.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

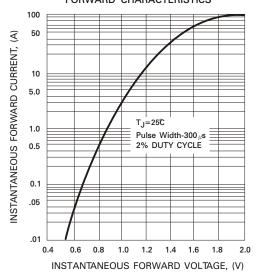


Fig.4- TYPICAL REVERSE CHARACTERISTICS

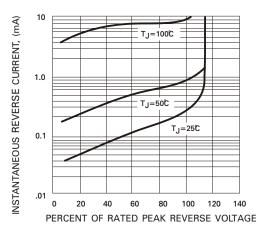


Fig.5 - TYPICAL JUNCTION CAPACITANCE

