

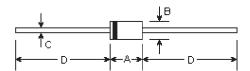
BY396 THRU BY399

FAST RECOVERY SILICON RECTIFIER
Reverse Voltage - 100 to 800 Volts
Forward Current - 3.0 Amperes

Features

- Fast recovery diodes
- Diffused junction
- High surge capability
- The plastic material carries U/L recognition 94V-0
- Terminals: Axial leads
- Polarity: Color band denotes cathode

DO-201AD



Mounting Instruction

- Min. distance from body to soldering point, 4mm
- Max. solder temperature, 350 °C
- Max. soldering time: 3.5 Sec.
- Do not bend lead at a point closer than 3mm to the body
- Weight: 0.042 ounce, 1.195 gram

DIMENSIONS									
DIM	inches		m	Note					
	Min.	Max.	Min.	Max.	Note				
Α	0.283	0.374	7.20	9.50					
В	0.189	0.208	4.80	5.30	ф				
С	0.048	0.051	1.20	1.30	ф				
D	1.000	-	25.40	-					

Maximum Ratings and Electrical Characteristics

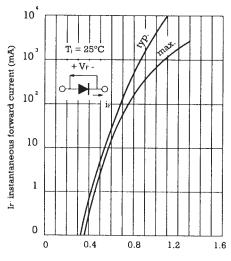
Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	BY396	BY397	BY398	BY399	Units
Peak repetitive and non repetitive reverse voltage	V _{RRM}	100	200	400	800	Volts
Forward current, R load at $\rm T_{amb} = 50 {^{\circ}\rm C}$	I _(AV)		Amps			
8.3mS peak forward surge current at $T_j \! = \! 25 ^{\circ}\! \mathrm{C}$	I _{FSM}		Amps			
Recurrent peak forward current (A)	I _{FRM}		Amps			
Maximum forward voltage drop at I _F =3.0A	V _F		Volts			
Maximum reverse current at V _{RRM} at 25°C	I _R	10.0			μА	
Maximum reverse recovery time (Note 1)	T _{rr}		nS			
Maximum thermal resistance (I=10mm)	R _{⊕JA}	30.0				°C/W
Operating and storage temperature range	T _J , T _{STG}	-65 to +125			°C	

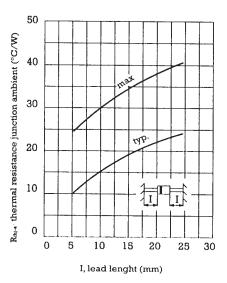
Note:

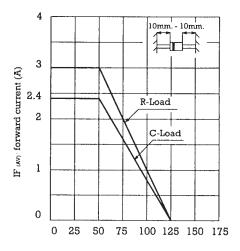
(1) Reverse recovery test conditions: I_E=0.5A, I_R=1.0A, I_R=0.25A

RATINGS AND CHARACTERISTIC CURVES



V_F instantaneous forward voltage drop (V)





Tamb, ambient temperature (°C)

