



BY251 THRU BY255

GENERAL PURPOSE PLASTIC RECTIFIER

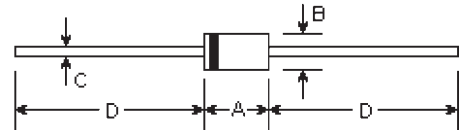
Reverse Voltage - 200 to 1300 Volts

Forward Current - 3.0 Amperes

Features

- Low cost
- Diffused junction
- High current 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

DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.283	0.374	7.20	9.50	
B	0.189	0.208	4.80	5.30	ϕ
C	0.048	0.051	1.20	1.30	ϕ
D	1.000	-	25.40	-	

Maximum Ratings and Electrical Characteristics

	Symbols	BY251	BY252	BY253	BY254	BY255	Units
Peak repetitive reverse voltage	V_{RRM}	200	400	600	800	1300	Volts
Forward current at $T_{amb}=50^{\circ}C$	$I_{(AV)}$	3.0					Amps
8.3mS peak forward surge current	I_{FSM}	100.0					Amps
Recurrent peak forward current	I_{FRM}	20.0					Amps
Maximum forward voltage drop at $I_F=3.0A$	V_F	1.1					Volts
Maximum reverse current at V_{RRM}	I_R	10.0					μA
Maximum thermal resistance ($l=10mm$)	$R_{\theta JA}$	30.0					$^{\circ}C/W$
Operating and storage temperature range	T_J, T_{STG}	-65 to +150					$^{\circ}C$

RATINGS AND CHARACTERISTIC CURVES

