

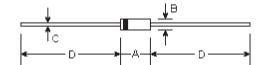
BA157 THRU BA159

FAST SWITCHING PLASITC RECTIFIER
Reverse Voltage - 400 to 1000 Volts
Forward Current - 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge current capabability
- Void-free plastic package
- Fast switching for high efficiency
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3Kg) tension

DO-41



Mechanical Data

• Case: DO-41 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, 0.33 gram

DIMENSIONS								
DIM	inches		mm		Note			
	Min.	Max.	Min.	Max.	Note			
Α	0.165	0.205	4.2	5.2				
В	0.079	0.106	2.0	2.7	ф			
С	0.028	0.034	0.71	0.86	ф			
D	1.000	-	25.40	-				

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	BA157	BA158	BA159	Units
Maximum repetitive peak reverse voltage	V _{RRM}	400	600	1000	Volts
Maximum RMS voltage	V _{RMS}	280	420	700	Volts
Maximum DC blocking voltage	V _{DC}	400	600	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $\rm T_A$ =50 $^{\circ}\rm C$	I _(AV)	1.0			Amp
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load at T_A =25 $^{\circ}$ C	I _{FSM}	35.0			Amps
Maximum instantaneous forward voltage at 1.0A	V _F	1.3			Volts
Maximum DC reverse current at rated DC blocking voltage ${\rm T_A}$ =25 $^{\circ}{\rm C}$	I _R	5.0			μА
Maximum reverse recovery time (Note 1)	T _{rr}	150 250		250	nS
Typical junction capacitance (Note 2)	C _J	15.0			ρF
Typical thermal resistance (Note 3)	R _{⊕JL}	25			°C/W
Maximum operating junction temperature	T,	-65 to +125			$^{\circ}$
Maximum storage temperature	T _{STG}	-65 to +125			$^{\circ}$

Notes:

- (1) Reverse recovery test conditions: I_F =0.5A, I_R =1.0A, I_r =0.25A
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts
- (3) Thermal resistance from junction to lead at 0.375" (9.5mm) lead length P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

