



BA157 - BA159

1.0 AMP. Fast Recovery Rectifiers



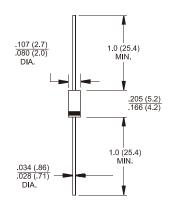


Features

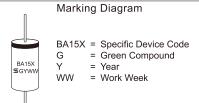
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- High surge current capability
- ♦ Low power loss.
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ♦ Cases: DO-41 Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, Lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- ♦ Weight: 0.34 grams



Dimensions in inches and (millimeters)



Version: C10

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

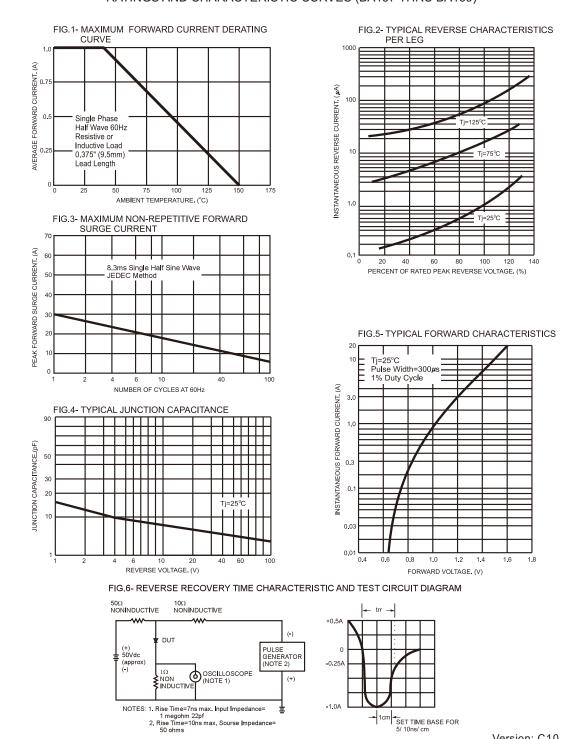
Type Number	Symbol	BA157	BA158	BA159	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	600	1000	V
Maximum RMS Voltage	VRMS	280	420	700	V
Maximum DC Blocking Voltage	VDC	400	600	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @T _A = 45 °C	I F(AV)	1.0			А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I FSM	30			А
Maximum Instantaneous Forward Voltage @ 1.0A	VF	1.2			\ \
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	I R	5.0 150			uA uA
Maximum Reverse Recovery Time (Note4)	Trr	15	50	250	nS
Typical Junction Capacitance (Note 2)	Cj	10		pF	
Typical Thermal Resistance (Note 3)	Rөja	65			°C/W
Operating Temperature Range	Тл	-65 to +150			°C
Storage Temperature Range	Тѕтс	-65 to +150			°C

Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.
- 4. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A



RATINGS AND CHARACTERISTIC CURVES (BA157 THRU BA159)



Version: C10