

BA157 – BA159

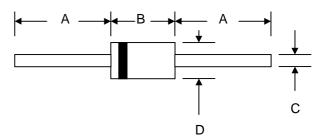
1.0A FAST RECOVERY RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-41					
Dim	Min	Max			
Α	25.4	—			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	BA157	BA158	BA159	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	400	600	1000	V
RMS Reverse Voltage	VR(RMS)	280	420	700	V
Average Rectified Output Current (Note 1) $@T_A = 55^{\circ}C$	lo	1.0		А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30		A	
Forward Voltage $@I_F = 1.0A$	Vfm	1.2		V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 100		μA	
Reverse Recovery Time (Note 2)	trr	150	250	500	nS
Typical Junction Capacitance (Note 3)	Cj	15		pF	
Operating Temperature Range	Tj	-65 to +125		°C	
Storage Temperature Range	Тѕтс	-65 to +150		°C	

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

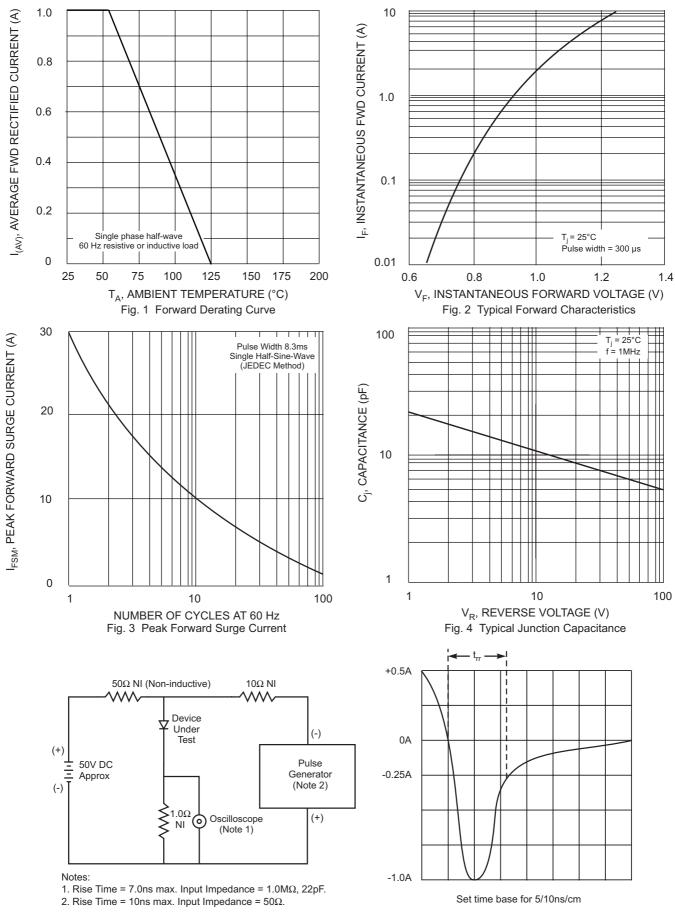


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.*	Package Type	Shipping Quantity
BA157-T3	DO-41	5000/Tape & Reel
BA157-TB	DO-41	5000/Tape & Box
BA157	DO-41	1000 Units/Box
BA158-T3	DO-41	5000/Tape & Reel
BA158-TB	DO-41	5000/Tape & Box
BA158	DO-41	1000 Units/Box
BA159-T3	DO-41	5000/Tape & Reel
BA159-TB	DO-41	5000/Tape & Box
BA159	DO-41	1000 Units/Box

Products listed in **bold** are WTE **Preferred** devices. *T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order

quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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