

BA157 - BA159

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FAST RECOVERY RECTIFIER DIODES

VOLTAGE RANGE: 400 - 1000V

CURRENT: 1.0 A

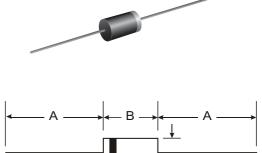
Features

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

Mechanical Data

- Case: D O 4 1 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	Мах				
Α	25.40					
В	4.06	5.21				
С	0.71	0.864				
D	2.00	2.72				
All Dimensions in mm						

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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 $@I_F = 1.0A$	Vfм	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			μΑ
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	Tstg	-65 to +150		°C	

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.



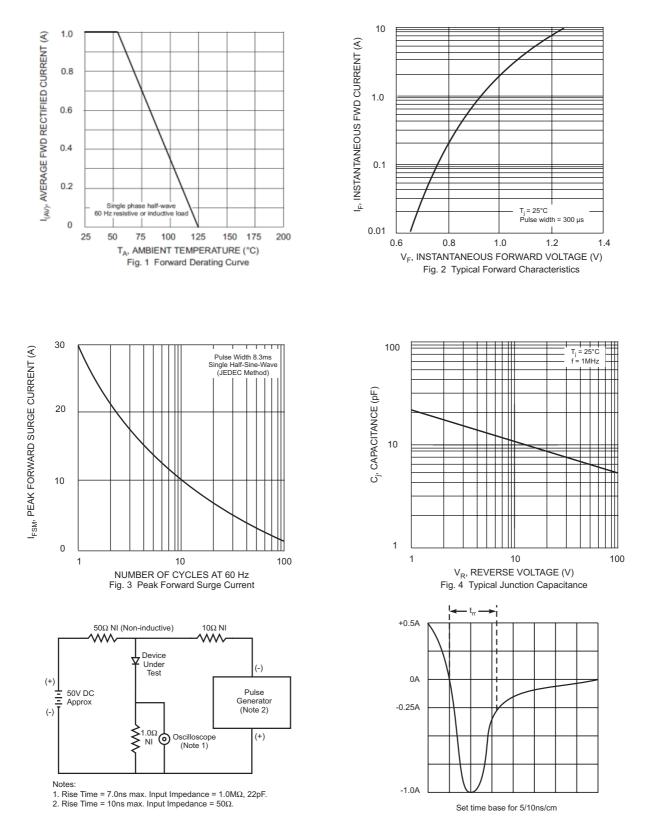


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit