Zibo Seno Electronic Engineering Co., Ltd.



1.0A FAST RECOVERY RECTIFIER

Features

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

Mechanical Data

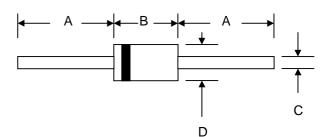
Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 0.34 grams (approx.)

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version



DO-41					
Dim	Min	Max			
Α	24.5	_			
В	4.06	5.21			
С	0.60	0.80			
D	2.00	3.00			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA=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 = 75°C	lo	1.0		А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	 FSM	30			А
Forward Voltage $@I_F = 1.0A$	VFM	1.2			V
	lгм	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 +150		°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.

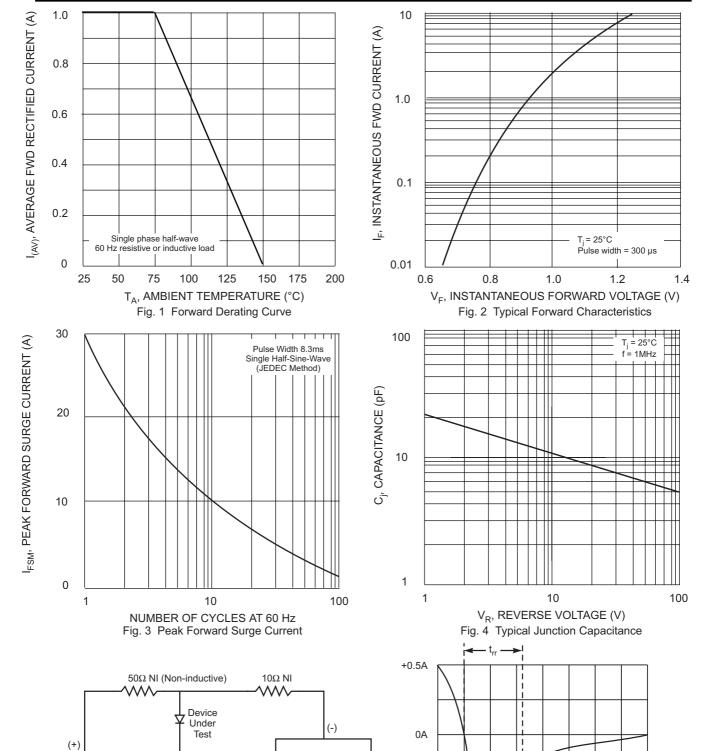
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BA157 - BA159







1. Rise Time = 7.0ns max. Input Impedance = $1.0M\Omega$, 22pF. 2. Rise Time = 10ns max. Input Impedance = 50Ω .

1.0Ω

(0) NI

Oscilloscope

(Note 1)

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

Pulse

Generator (Note 2)

(+)

Set time base for 5/10ns/cm

50V DC

Approx

(-)

-0.25A

-1.0A