



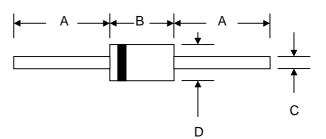
1.0A FAST RECOVERY DIODE

Features

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

Mechanical Data

- Case: DO-41, 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
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



	DO-41					
Dim	Min	Max				
A	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

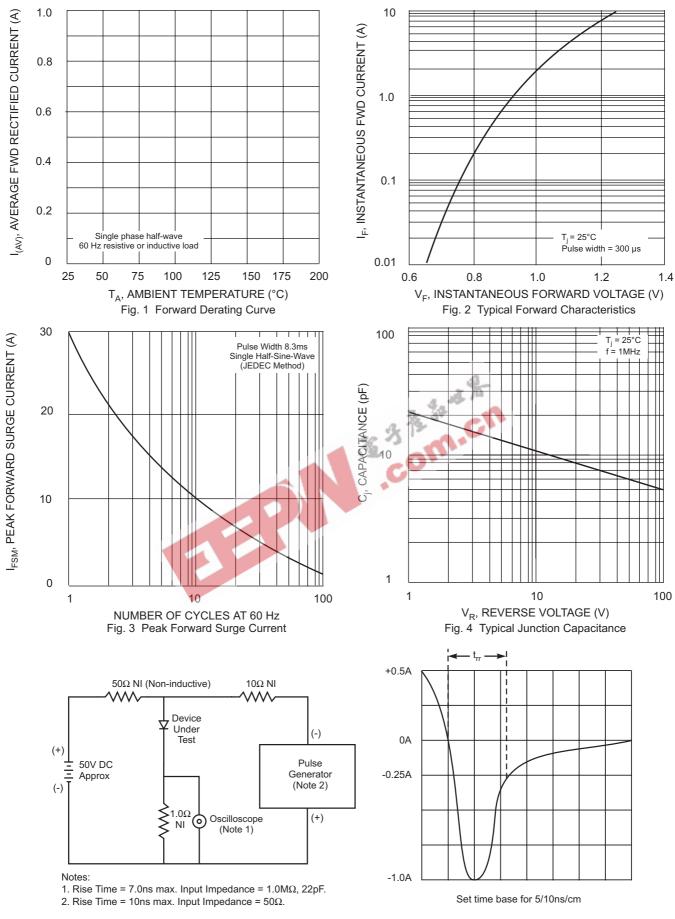
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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		А
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

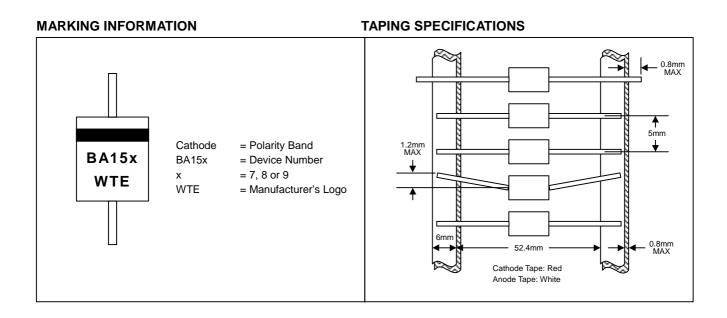
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

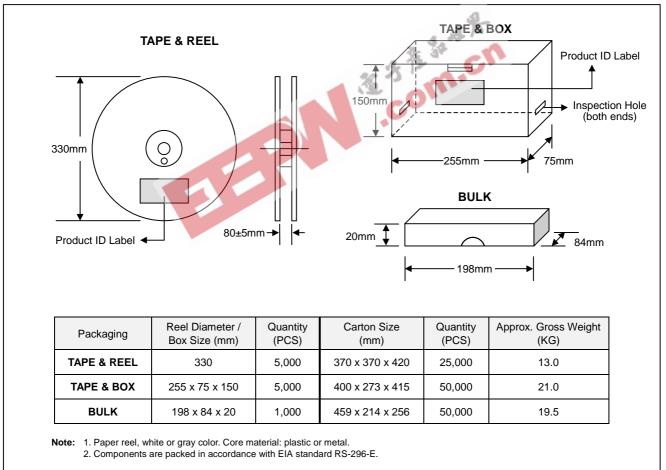
3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.







PACKAGING INFORMATION



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. 1

2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

3. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BA157-TB-LF.



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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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