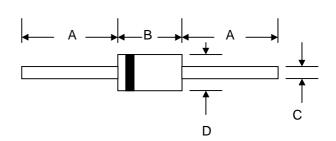


3.0A SCHOTTKY BARRIER DIODE

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 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-201AD				
Dim	Min	Max		
Α	25.4	_		
В	7.20	9.50		
С	1.20	1.30		
D	4.80	5.30		
All Dimensions in mm				

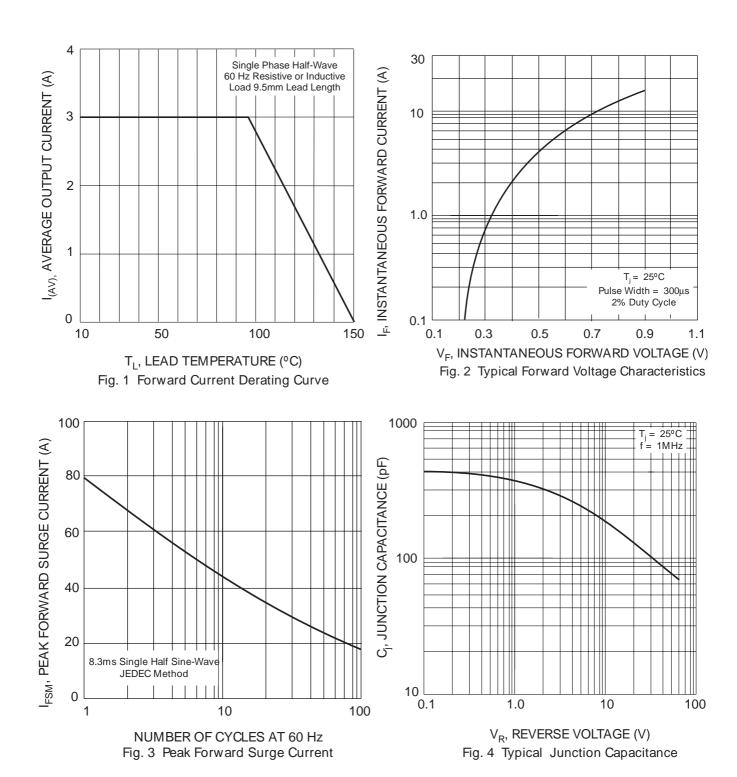
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	1N5820	1N5821	1N5822	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	V
RMS Reverse Voltage	VR(RMS)	14	21	28	V
Average Rectified Output Current (Note 1) @T _L = 95°0	C Io	3.0			Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		80		А
Forward Voltage $@I_F = 3.0A$ $@I_F = 9.4A$	1 \/FM	0.475 0.850	0.50 0.90	0.525 0.950	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IDM	2.0 20		mA	
Typical Junction Capacitance (Note 2)	Cj	250		pF	
Typical Thermal Resistance Junction to Ambient (Note 3)	R ⊕ JA	40		°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150		°C	

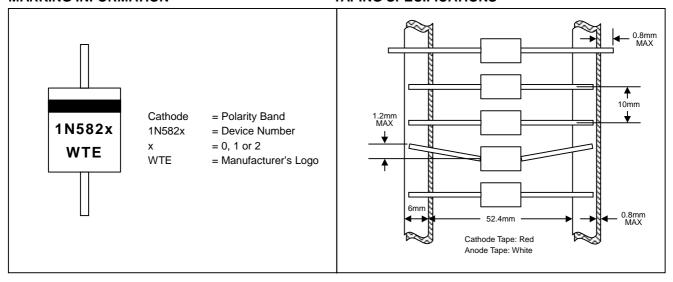
Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. P.C.B. mounted, 12.7mm lead length with 63.5mm² copper pad.

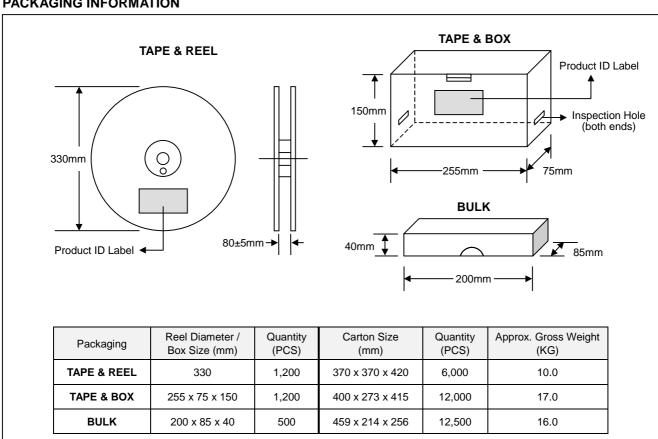


MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with $\dot{\text{EIA}}$ standard RS-296-E.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity	
1N5820-T3	DO-201AD	1200/Tape & Reel	
1N5820-TB	DO-201AD	1200/Tape & Box	
1N5820	DO-201AD	500 Units/Box	
1N5821-T3	DO-201AD	1200/Tape & Reel	
1N5821-TB	DO-201AD	1200/Tape & Box	
1N5821	DO-201AD	500 Units/Box	
1N5822-T3	DO-201AD	1200/Tape & Reel	
1N5822-TB	DO-201AD	1200/Tape & Box	
1N5822	DO-201AD	500 Units/Box	

- Products listed in **bold** are WTE **Preferred** devices.
- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 1N5820-TB-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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We power your everyday.