



#### 3.0A SCHOTTKY BARRIER DIODE



### **Features**

- Schottky Barrier Chip
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 80A Peak
- Low Power Loss, High Efficiency
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

# Mechanical Data

Case: DO-201AD, Molded Plastic

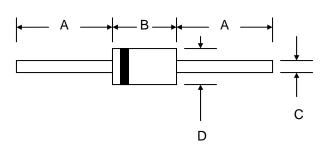
Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: Cathode Band

Weight: 1.2 grams (approx.)

Mounting Position: AnyMarking: 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		
C	1.20	1.30		
D	4.80	5.30		
All Dimensions in mm				

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

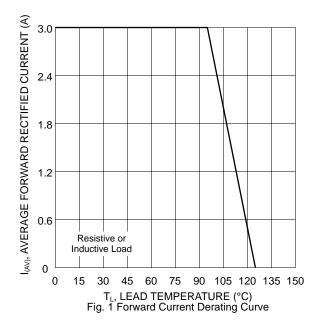
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

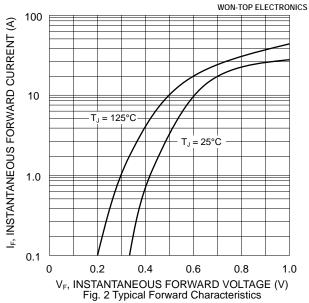
Characteristic	Symbol	1N5820	1N5821	1N5822	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	V
RMS Reverse Voltage	VR(RMS)	14	21	28	٧
Average Rectified Output Current (Note 1) @T <sub>L</sub> = 95°C	lo		3.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM		80		А
Forward Voltage $@I_F = 3.0A$ $@I_F = 9.4A$	VFM	0.475 0.850	0.500 0.900	0.525 0.950	V
	IRM		2.0 20		mA
Thermal Resistance, Junction to Ambient (Note 2) Thermal Resistance, Junction to Lead (Note 2)	R JA R JL	28 10		°C/W	
Operating Temperature Range	TJ	-65 to +125		°C	
Storage Temperature Range	Тѕтс	-65 to +150		°C	

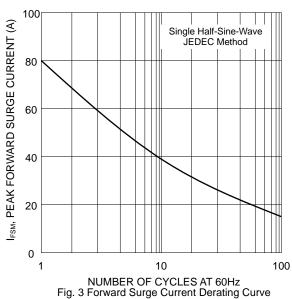
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

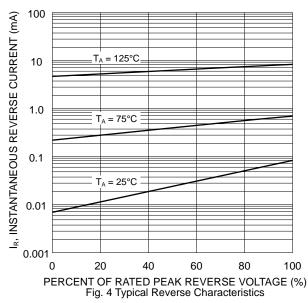
2. Vertical PCB mounting with 12.7mm lead length on 63.5 x 63.5mm copper pad.

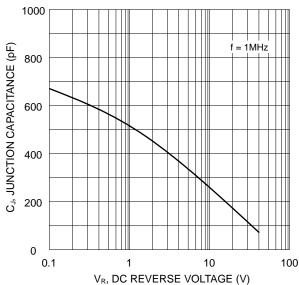








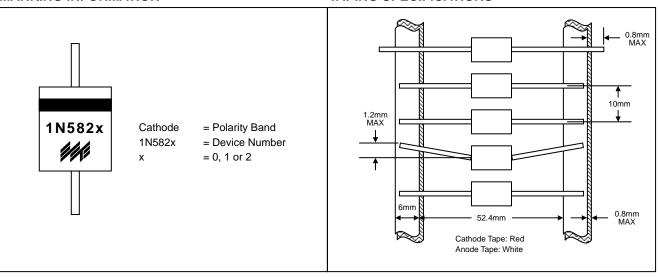




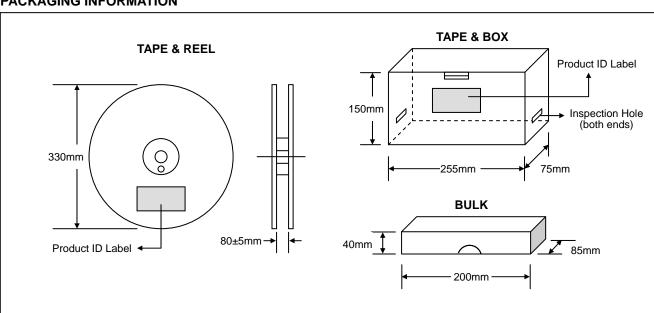


# **MARKING INFORMATION**

# TAPING SPECIFICATIONS



#### **PACKAGING INFORMATION**



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	1,200	370 x 370 x 420	6,000	10.0
TAPE & BOX	255 x 75 x 150	1,200	400 x 273 x 415	12,000	17.0
BULK	200 x 85 x 40	500	459 x 214 x 256	12,500	16.0

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.
2. Components are packed in accordance with EIA standard RS-296-E.



#### ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
1N582x-T3	DO-201AD	1200/Tape & Reel
1N582x-TB	DO-201AD	1200/Tape & Box
1N582x	DO-201AD	500 Units/Box

- Products listed in **bold** are WTE **Preferred** devices.
- 2.
- 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. 3.

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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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