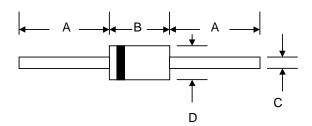
3.0A SCHOTTKY BARRIER RECTIFIER

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: 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

DO-201AD					
Dim	Min	Max			
Α	25.4	_			
В	8.50	9.50			
С	1.20	1.30			
D	5.0	5.60			
All Dimensions in mm					

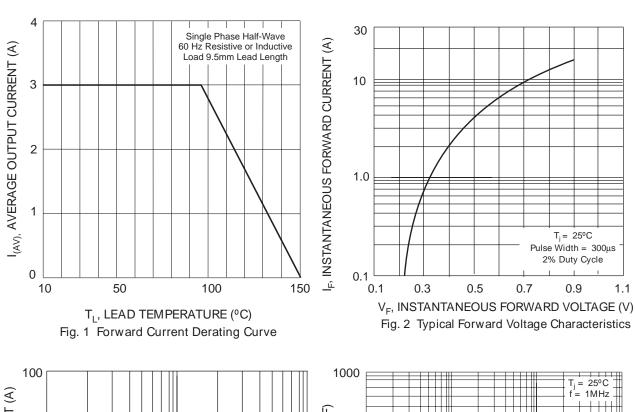
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

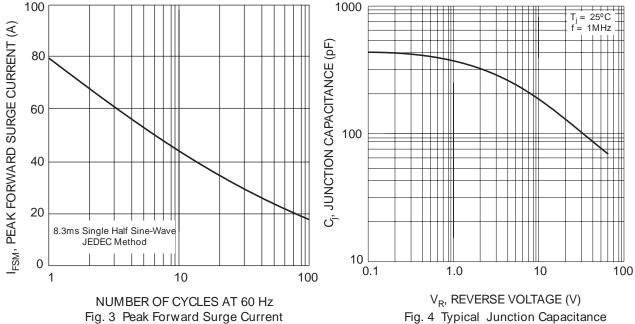
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	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 = 90°C	lo	3.0		А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) @T _L = 75°C		IFSM	80		А	
Forward Voltage	$@I_F = 3.0A$ $@I_F = 9.4A$	VFM	0.475 0.850	0.50 0.90	0.525 0.950	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM		2.0 20		mA
Typical Junction Capacitance (Note 2)		Cj	250		pF	
Typical Thermal Resistance Junction to Ambient		$R_{ heta}$ JA	20		K/W	
Operating and Storage Temperature Range		Тj, Тsтg	-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.





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.

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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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We power your everyday.



[◆]T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

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