

### YEA SHIN TECHNOLOGY CO., LTD

### 1N5820 THRU 1N5822

# 3 AMPERE SCHOTTKY BARRIER RECTIFIERS **VOLTAGE - 20 to 40 Volts CURRENT - 3.0 Ampere**





#### **FEATURES**

Plastic package has Underwriters Laboratory

Flammability Classification 94V-0 utilizing

Flame Retardant Epoxy Molding Compound.

3 ampere operation at TA=95°C with no

thermal runaway.

Exceeds environmental standards of MIL-S-19500/228

For use in low voltage, high frequency inverters, free

wheeling ,and polarity protection applications .

High temperature soldering : 260°C / 10 seconds at terminals

Pb free product at available: 99% Sn above meet RoHS

environment substance directive request

#### **MECHANICAL DATA**

Case: DO-201AD Molded plastic

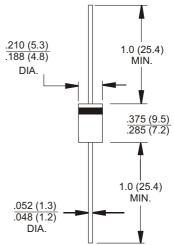
Terminals: Axial leads, solderable per MIL-STD-202, Method 208

Polarity: Color band denotes cathode

Mounting Position: Any



DO-201AD Unit:inch(mm)



#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

	1N5820	1N5821	1N5822	UNIT
Peak Reverse Voltage,Repetitive ; VRM	20	30	40	V
Maximum RMS Voltage	14	21	28	V
DC Reverse Voltage; VR	20	30	40	V
Maximum Forward Voltage at 3.0A	0.475	0.500	0.525	V
Maximum Forward Voltage at 9.4A	0.850	0.900	0.950	
Maximum Average Forward Rectified Current .375" Lead Length at TA=95°C	3.0			А
Peak Forward Surge Current, IFM (surge):8. 3ms single half sine-wave superimposedon rated load(JEDEC method)TA=75°C	80			А
Maximum DC Reverse Current at TA=25°C	0.5			mA
At Rated DC Blocking Voltage TA=100°C	20			mA
Typical Thermal Resistance RθJA(Note 1)		28		
Typical Junction capacitance (Note 2)	190			pF
Operating Temperature Range TJ	-55 to +150			°C

#### NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Thermal Resistance from Junction to Ambient .

### **DEVICE CHARACTERISTICS**

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