

# CHENMKO ENTERPRISE CO.,LTD

1N5820PT **THRU** 1N5822PT

## SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 40 Volts CURRENT 3.0 Amperes

#### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low switching noise
- Low forward voltage drop High current capability
- High switching capability
- High reliability
- High surge capability
- High temperature soldering guaranteed : 260°C/10 seconds , 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: JEDEC DO-201AD molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

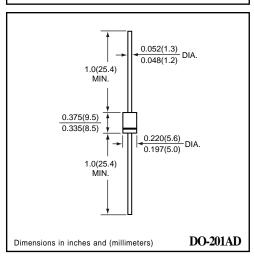
Mounting Position: Any Weight: 1.18 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

For capacitive load, derate current by 20%.

# **DO-201AD**



### MAXIMUM RATINGES ( At TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	1N5820PT	1N5821PT	1N5822PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts
Maximum RMS Voltage	VRMS	14	21	28	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at TL = 95°C	lo	3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80			Amps
Typical Junction Capacitance (Note 1)	Cı	250			pF
Typical Thermal Resistance (Note 2)	R θ JA	28			°C/W
Storage and Operating Temperature Range	TJ, TSTG	-65 to +125			°C

# **ELECTRICAL CHARACTERISTICS** ( At TA = 25°C unless otherwise noted )

CHARACTERISTICS		SYMBOL	1N5820PT	1N5821PT	1N5822PT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC		VF	0.475	0.500	0.525	Volts
Maximum Instantaneous Forward Voltage at 9.4 A DC		VF	0.850	0.900	0.950	Volts
Maximum Average Reverse Current	@ Ta = 25°C	lr.	2.0			mAmps
at Rated DC Blocking Voltage (Note 3)	@ Ta = 100°C	I IR	20			

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance ( Junction to Ambient ) : Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

3. Measured at Pulse Width 300 us, Duty Cycle 2%.

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