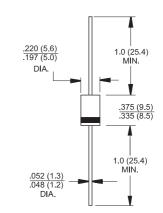
1N5820 - 1N5822



3.0 AMPS. Schottky Barrier Rectifiers **DO-201AD**

Features

- ♦ Low power loss, high efficiency.
- ♦ High current capability, Low VF.
- ♦ High reliability
- High surge current capability.
- Epitaxial construction.
- ♦ Guard-ring for transient protection.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application.



Mechanical Data

- ♦ Cases: DO-201AD molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Weight: 1.10 grams

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	1N5820	1N5821	1N5822	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _L = 90°C	I _(AV)	3.0			Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80			А
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	0.475	0.500	0.525	٧
Maximum Instantaneous Forward Voltage @ 9.0A	V _F	0.850	0.900	0.950	V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =100 °C	I _R	0.5 10			mA mA
Typical Junction Capacitance (Note 2)	Cj	200			pF
Typical Thermal Resistance (Note 1)	R _{0JA}	40			°C/W
Operating Temperature Range	TJ	-65 to +125			°C
Storage Temperature Range	T _{STG}	-65 to +125			°C

Notes: 1. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

RATINGS AND CHARACTERISTIC CURVES (1N5820 THR1N5822)

