DongGuan Tongke Electronic Co.,LTD

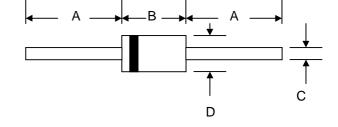


1N5820 – 1N5822 🐯 👬

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 24.5 Α 7.20 9.50 в С 1.10 1.30 D 5.00 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) $@T_L = 90^{\circ}C$	lo	3.0			А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) $@T_L = 75^{\circ}C$	IFSM		80		A
Forward Voltage @I _F = 3.0A	Vfm	0.475	0.50	0.525	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	2.0 20			mA
Typical Junction Capacitance (Note 2)	Cj	250			pF
Typical Thermal Resistance Junction to Ambient	RθJA	20			K/W
Operating and Storage Temperature Range	Tj, TSTG	-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.

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