Kingtronics®

1N5820 THRU

1N5822

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 40 Volts Forward Current - 3.0 Amperes

FEATURES

- ◆Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆Metal silicon junction,majority carrier conduction
- ◆Guarding for overvoltage protection
- ◆Low power loss,high efficiency
- ◆High current capability,low forward voltage drop
- ◆High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length,5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

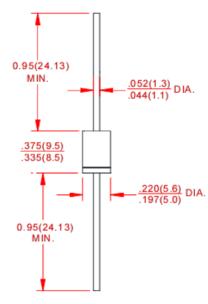
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for current capacitive load derate by 20%.

	SYMBOLS	1N5820	1N5821	1N5822	UNITS
Maximum repetitive peak reverse voltage	V_RRM	20	30	40	VOLTS
Maximum RMS Voltage	V _{RMS}	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 $^{\circ}$ C	l(AV)		3.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм		80.0		Amps
Maximum instantaneous forward voltage at 3.0A	VF	0.475	0.500	0.525	Volts
Maximum DC reverse current TA=25℃ at rated DC blocking voltage TA=100℃	lr		2.0 40.0		mA
Typical junction capacitance (NOTE 1)	Сл		300.0		pF
Typical thermal resistance (NOTE 2)	Reja		40.0		°C/W
Operating junction and storage temperature range	Т _Ј ,Тѕтс		-65 to +125		$^{\circ}\!\mathbb{C}$

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. Mounted

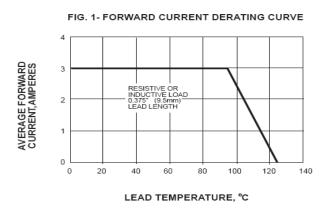
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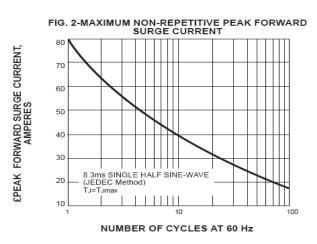
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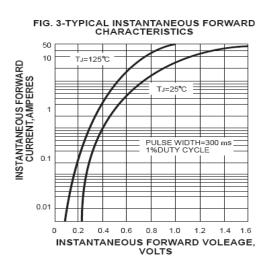
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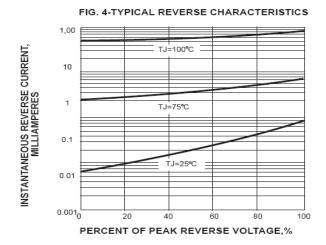
1N5820 THRU 1N5822

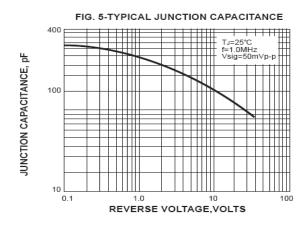
RATINGS AND CHARACTERISTIC CURVES 1N5820 THRU 1N5822

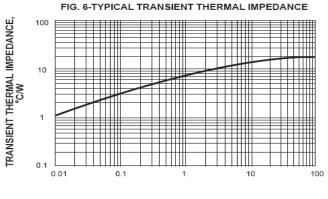












t,PULSE DURATION,sec.

Note: Specifications are subject to change without notice

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