

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N5820 THRU 1N5822

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 40 Volts CURRENT - 3.0 Amperes

FEATURES

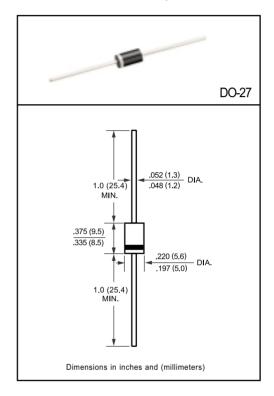
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capabitity
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * 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%.



		SYMBOL	1N5820	1N5821	1N5822	UNITS
Maximum Recurrent Peak Reverse Voltage		V RRM	20	30	40	Volts
Maximum RMS Voltage		V RMS	14	21	28	Volts
Maximum DC Blocking Voltage		V DC	20	30	40	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length at T L = 95°C		Io	3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	80			Amps
Maximum Instantaneous Forward Voltage at 3.0A DC (Note 1)		VF	.475	.500	.525	Volts
Maximum Instantaneous Forward Voltage at 9.4A DC (Note 1)		VF	.850	.900	.950	Volts
Maximum DC Reverse Current at	@TA = 25°C	IR	2.0			mAmps
Rated DC Blocking Voltage (Note 1)	@TA= 100°C] IK	20			
Typical Thermal Resistance (Note 2)		RθJA	28		°C/W	
Typical Junction Capacitance (Note 3)		Cı	250		pF	
Storage and Operating Temperature Range		TJ, TSTG	-65 to + 125			۰c

NOTES: 1. Measured at Pulse Width 300 uS, Duty 2%.

- 2. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5"(12.7mm) Lead Length.
- 3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (1N5820 THRU 1N5822)

