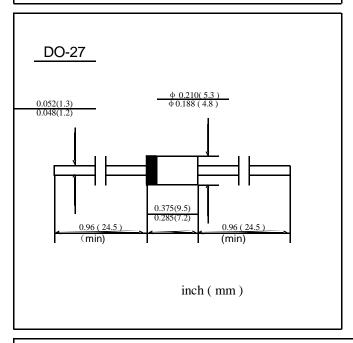
CHANGYUAN ELECTRONICS

1N5820 THRU 1N5822

3.0AMP PLASTIC SILICON RECTIFIERS



VOLTAGE RANGE: 20 to 40 VOLTS

FEATURES

- . Low cost
- . Diffused junction
- . Low Leakage
- . Low forward voltage drop
- . High current capability
- . Easily cleaned with Freon. Alcohol. Lsopropanol and similar solvents
- . The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

- . Case: JEDEC DO-27. molded plastic
- . Terminals: Axial leads. Solderable per MIL STD 750. Method 2026
- . Polarity: Color band denotes cathode
- . Weight: 0.041 ounce. 1.15 grams
- . Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave. 60HZ, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOL	1N5820	1N5821	1N5822	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	V
Maximum RMS Voltage	VRMS	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified	20				
Current 9.5mm Lead Length. Ta = 95°C	I(AV)	3.0			А
Peak Forward Surge Current					
8.3ms Single half-sine-wave superimposed	IFSM	80.0			Α
on rated load					
Maximum Forward Voltage at 3.0 A DC	VF	0.475	0.500	0.525	V
Maximum Reverse Current $T_j = 25$ °C	T-	2.0			mA
at Rated DC Blocking Voltage Tj = 100°C	IR	20.0			
Typical Thermal Resistance (Note1)	RQJA	40			pF
	RQJL	10			°C/W
Operating Junction Temperature Range	Tj	—55 to 125			$^{\circ}$ C
Storage Temperature Range	Tstg	—55 to 150			$^{\circ}$

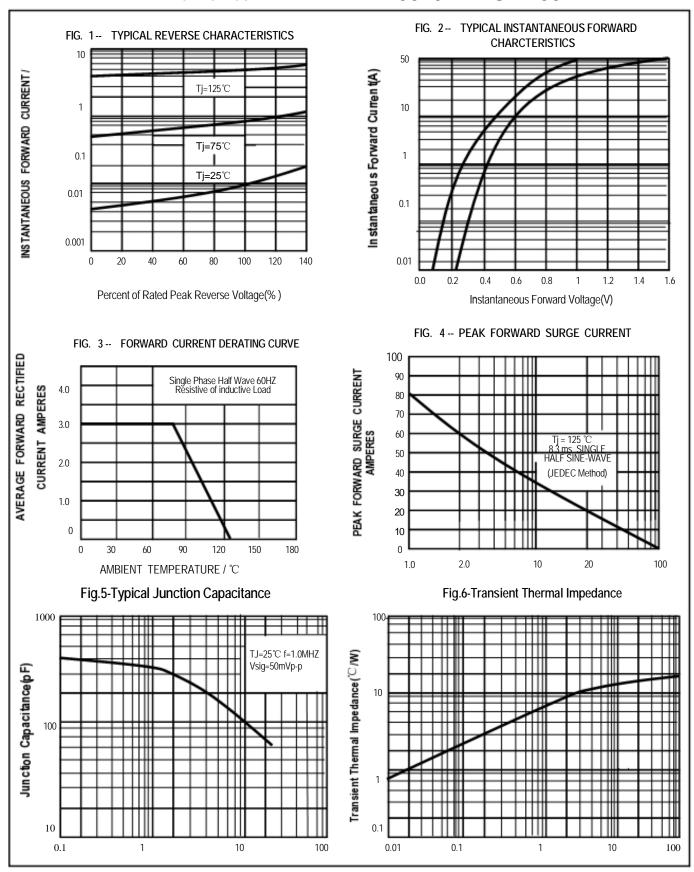
NOTE: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

2. Thermal resistance junction to Ambient at 9.5mm lead length, P.C.B. mounted

CHANGYUAN ELECTRONICS

CHANGYUAN ELECTRONICS

1N5820 THRU 1N5822



CHANGYUAN ELECTRONICS