

1N5821 THRU 1N5822

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 30 to 40 Volts CURRENT 3.0 Amperes

FEATURES

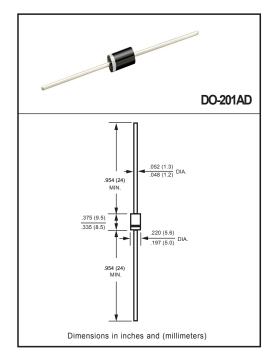
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capabitity
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any



Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	1N5821	1N5822	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30 40		Volts
Maximum RMS Voltage	V _{RMS}	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	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
Typical Current Squared Time	I ² T	26.5		A ² S
Typical Thornal Decistores (Note 2)	R ₀ JA	40		° C/W
Typical Thermal Resistance (Note 3)	R ₀ JL	10		
Typical Junction Capacitance (Note 1)	CJ	250		pF
Operating Temperature Range	TJ	-55 to + 150		°C
Storage Temperature Range	T _{STG}	-55 to + 150		

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

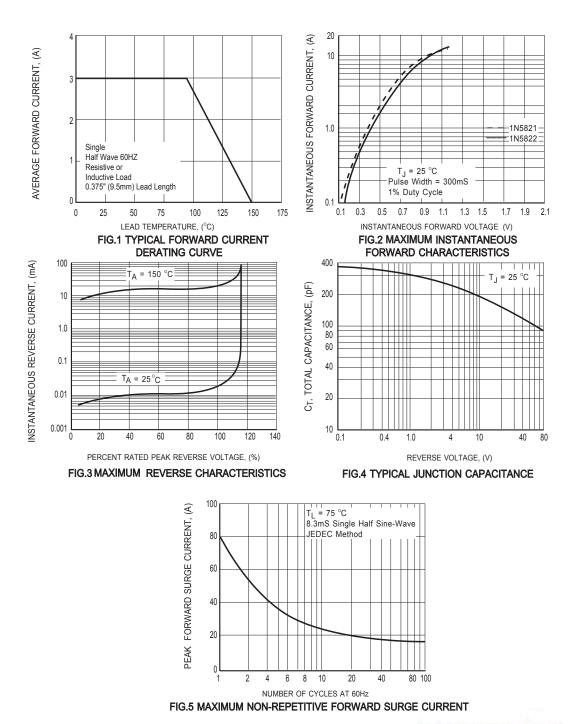
CHARACTERISTICS	SYMBOL	1N5821	1N5822	UNITS	
Maximum Instantaneous Forward Voltage at 3.0	VF	.500	.525	Volts	
Maximum Instantaneous Forward Voltage at 9.4	VF	.900	.950	Volts	
Maximum Average Reverse Current @T _A = 25°C		1-	20)	uAmps
at Rated DC Blocking Voltage (Note 4)	I _R	2	0	mAmps	

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

- 2. " ROHS compliant".
- 3. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.
- 4. Measured at Pulse Width 300mS, Duty 2%.

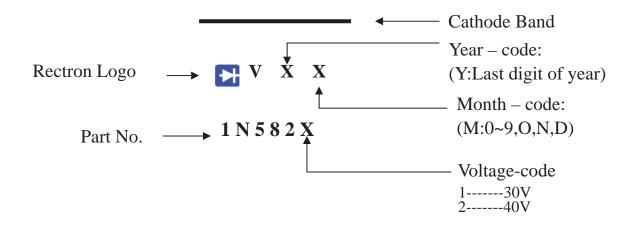
2022-04 REV:D

RATING AND CHARACTERISTICS CURVES (1N5821 THRU 1N5822)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
DO-201	-B	-B 500		347*320*271	12,000	15.9	

REEL PACK

	PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
ı	DO-201	-T	1,200	1,200	5.0	52	330	355*350*335	4,800	9.10

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-201	-F	600	9.5	52	255*73*100	400*268*225	6,000	9.9



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