



Dioda Schottky 1N5822 MIC 3A 40V DO-201 RoHS



Dane techniczne:

Nazwa: 1N5822

Typ diody: prostownicza Schottky

Napięcie wsteczne maksymalne: 40V

Prąd przewodzenia: 3A

Prąd w impulsie maksymalny: 80A

Obudowa: DO-201

Montaż: przewlekany(THT)



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

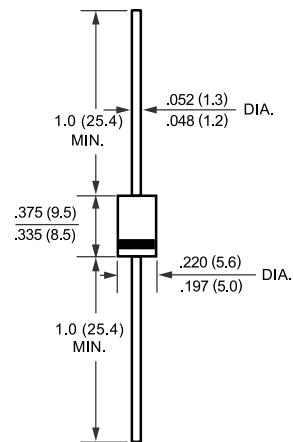
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capability
- * High reliability

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



DO-27



Dimensions in inches and (millimeters)

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	I _O	3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80			Amps
Maximum Instantaneous Forward Voltage at 3.0A DC (Note 1)	V _F	.475	.500	.525	Volts
Maximum Instantaneous Forward Voltage at 9.4A DC (Note 1)	V _F	.850	.900	.950	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 1)	I _R	@TA = 25°C			mAmps
		@TA = 100°C			
Typical Thermal Resistance (Note 2)	R _{θJA}	28			°C/W
Typical Junction Capacitance (Note 3)	C _J	250			pF
Storage and Operating Temperature Range	T _J , T _{STG}	-65 to +125			°C

- 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)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

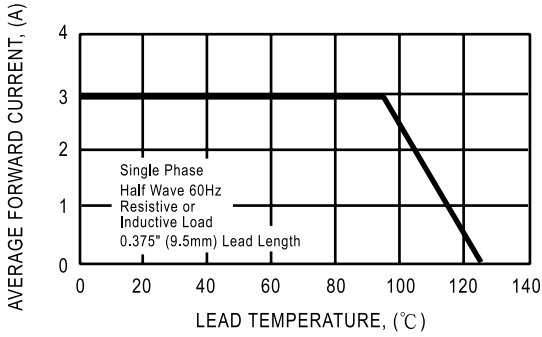


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

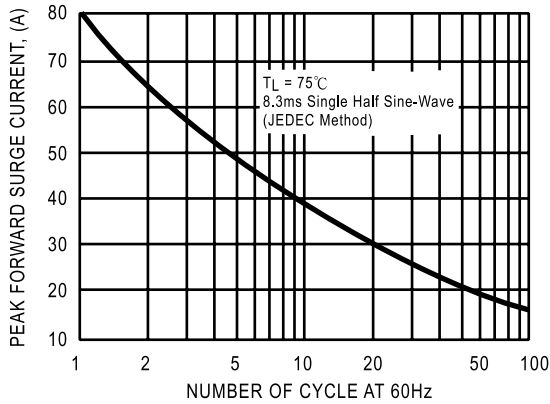


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

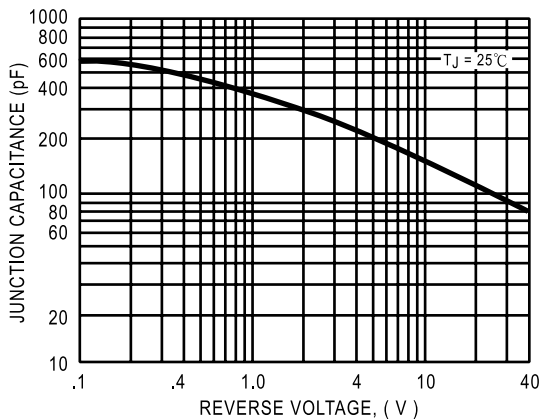


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

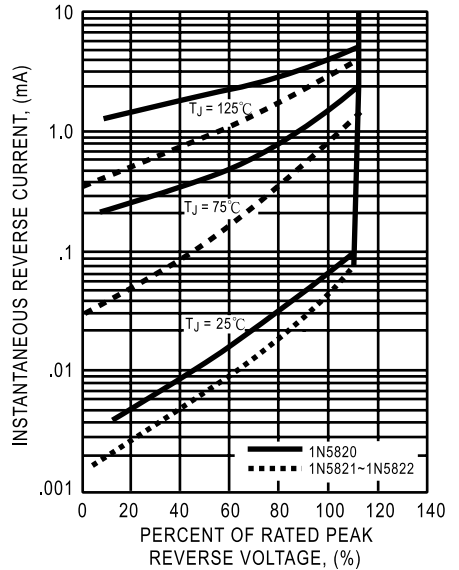
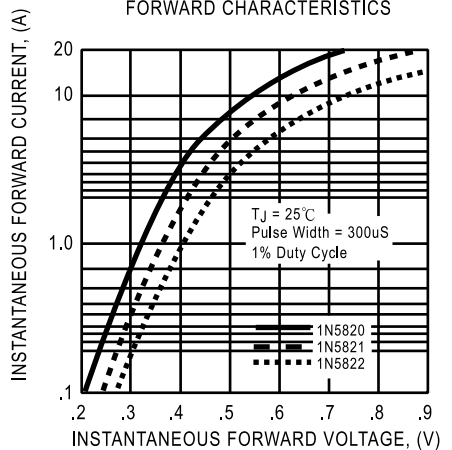


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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Datasheets for electronics components.