

T-01-15

1N5624GP THRU 1N5627GP

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

SUPERRECTIFIER

GENERAL INSTRUMENT



FEATURES

- High temperature metallurgically bonded—no compression contacts as found in diode-constructed rectifiers
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction in DO-201AD package
- 3.0 Ampere operation $T_A = 70^\circ\text{C}$ with no thermal runaway
- Typical I_n less than $1\ \mu\text{A}$
- Exceeds environmental standards of MIL-STD-19500
- High temperature soldering guaranteed $350^\circ\text{C}/10$ seconds/.375", (9.5mm) lead lengths 5 lbs. (2.3kg) tension

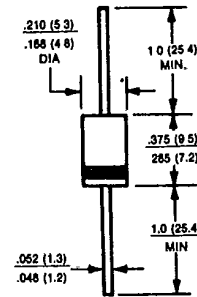
MECHANICAL DATA

Case: Molded plastic over glass
 Terminals: Axial leads, solderable per MIL-STD-202, Method 208
 Polarity: Band denotes cathode
 Mounting Position: Any
 Weight: 0.04 ounce, 1.12 grams

VOLTAGE RANGE
 200 to 800 Volts

CURRENT
 3.0 Amperes

DO-201AD



PATENTED

Brazed lead assembly is covered by Patent No. 3,930,366 of 1976 and glass composition by Patent No. 3,752,701 of 1973

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%.

	1N5624GP	1N5625GP	1N5626GP	1N5627GP	UNITS
* Maximum Recurrent Peak Reverse Voltage	200	400	600	800	V
* Maximum DC Reverse Voltage	200	400	600	800	V
* Maximum Average Forward Rectified Current .375", (9.5mm) lead length at $T_A = 70^\circ\text{C}$	3.0				A
* Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	125				A
* Maximum Instantaneous Forward Voltage at 3A	1.0				V
$T_A = 25^\circ\text{C}$.95				
$T_A = 70^\circ\text{C}$	5.0				
Maximum Reverse Current at Rated DC Reverse Voltage	$T_A = 25^\circ\text{C}$		$T_A = 150^\circ\text{C}$		μA
	300		200		
Maximum Full Load Reverse Current, Full Cycle Average, .375" (9.5mm) Lead Length	$T_A = 70^\circ\text{C}$				μA
	200				
Typical Junction Capacitance (Note 1)	60				pF
Typical Reverse Recovery Time (Note 1)	3				μs
Operating and Storage Temperature Range, T_j , T_{stg}	-65 to +175				$^\circ\text{C}$

NOTES:
 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC.
 2. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{tr} = 0.25\text{A}$
 * JEDEC Registered Value

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RATING AND CHARACTERISTIC CURVES
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