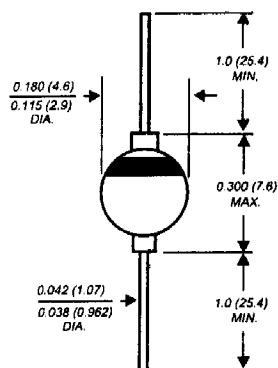


# 1N5550 THRU 1N5552

## GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 200 to 1000 Volts Forward Current - 3.0 Amperes

Case Style G4



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Glass passivated cavity-free junction
- ◆ High temperature metallurgically bonded construction
- ◆ Hermetically sealed package
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ Medium switching for improved efficiency
- ◆ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



### MECHANICAL DATA

Case: Solid glass body  
Terminals: Solder plated axial leads,

Polarity: Color band denotes cathode end  
Mounting Position: Any  
Weight: 0.037 ounce, 1.04 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	1N5550	1N5551	1N5552	UNITS
*Maximum repetitive peak reverse voltage	VRRM	200	400	600	Volts
Maximum RMS voltage	VRMS	140	280	420	Volts
*Maximum DC blocking voltage	VDC	200	400	600	Volts
*Minimum reverse breakdown voltage at 50µA	V(BR)	240	460	660	Volts
*Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55°C	I(AV)	3.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100.0			Amps
Maximum instantaneous forward voltage at 9.0A	VF	1.2			Volts
*Maximum DC reverse current at rated DC blocking voltage TA=25°C TA=100°C TA=200°C	IR	1.0 25.0 1500.0			µA
*Maximum junction capacitance (NOTE 1)	CJ	150	120	100	pF
*Maximum reverse recovery time (NOTE 2)	trr	2.0			µs
Typical thermal resistance (NOTE 3)	ROJA ROJL	22.0 12.0			°C/W
*Operating and storage temperature range	TJ, TSTG	-65 to +200			°C

NOTES:

- (1) Measured at 1.0 MHz and applied reverse voltage of 12.0 Volts
  - (2) Reverse recovery test conditions: IF=0.5A, IR=1.0A, IRR=0.25A
  - (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, with both leads mounted between heat sinks.
- \*JEDEC registered values

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