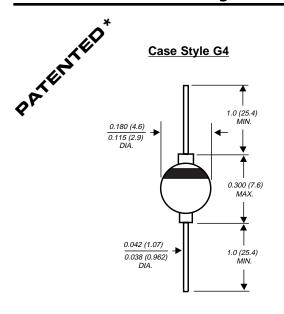
1N5550 THRU 1N5552

GLASS PASSIVATED JUNCTION RECTIFIER

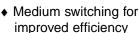
Reverse Voltage - 200 to 1000 Volts Forward Current - 3.0 Amperes



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



 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, solderable per

MIL-STD-750, Method 2026

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	V _{DC}	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 T _A =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 T _A =25°C T _A =100°C T _A =200°C	IR	1.0 25.0 1500.0			μА
*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)	R⊖JA R⊝JL	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



^{*} Brazed-lead assembly is covered by Patent No. 3,930,306

RATINGS AND CHARACTERISTIC CURVES 1N5550 THRU 1N5552

FIG. 1 - FORWARD CURRENT DERATING CURVE

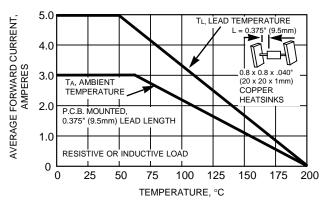


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

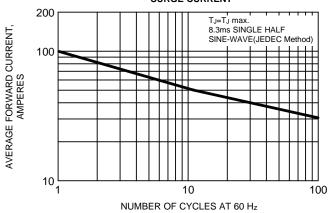


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

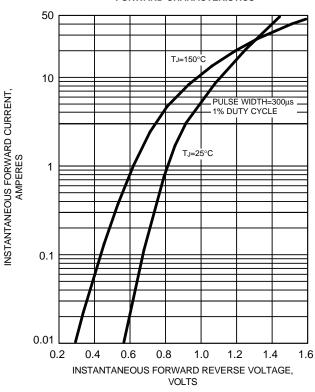


FIG. 4 -TYPICAL REVERSE CHARACTERISTICS

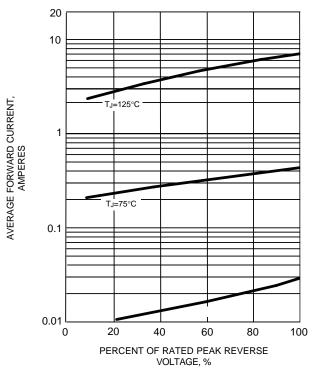


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

