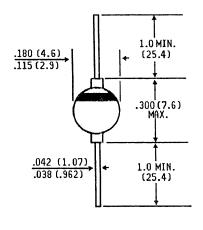
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1N5550 THRU 1N5554

FEATURES

- Glass passivated cavity-free junction
- High temperaturae metallurgically bonded
- Hermetically sealed package



Medium switching for good efficiency

High temperature soldering guaranteed:
350°C/10 seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension

MECHANICAL DATA

Case: One piece glass, hermetically sealed

Terminals: Plated Axial leads

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: .037 ounce, 1.04 grams

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

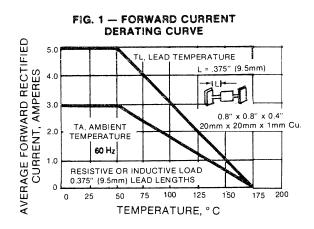
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	SYMBOLS	1N5550	1N5551 \	1N5552	1N5553	1N5554	UNITS
*Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	140	280	420	560	700	Volts
*Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	Volts
*Minimum Reverse Breakdown Voltage at 50 μ A	V _{BR}	240	⁻ 460	660	880	1100	Volts
*Maximum Average Forward Rectified Current							
.375", (9.5mm) Lead Lengths 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			Amps
* Maximum Instantaneous Forward Voltage at 3.0A	VF		1.0			1.1	Volts
*Maximum DC Reverse Current T _A = 25°C				1.0			
at Rated DC Blocking Voltage T _A = 100°C				25.0			
T _A = 200°C	I _R			1500			μΑ
*Maximum Junction Capacitance (Note 2)	CJ	150	120	100	90	85	pf
*Maximum Reverse Recovery Time (Note 1) T _J = 25°C	T _{RR}	2.0 4.0.					μs
Typical Thermal Resistance (Note 4)	R@JA	15.0					.c\M
*Operating and Storage Temperature Range	T _J ,T _{STG}	-65 to +200					.c

NOTES.

- 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = 1.0A, Irr = 25A.
- 2. Measured at 1 MHz and applied reverse voltage of 12.0 volts.
- 4. Thermal Resistance from Junction to Ambient at .375" (9.5mm) Lead Lengths, with both leads mounted between heat sinks. *JEDEC Registered Values

RATINGS AND CHARACTERISTIC CURVES 1N5550 THRU 1N5554



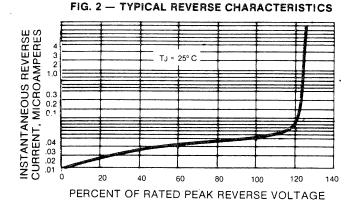
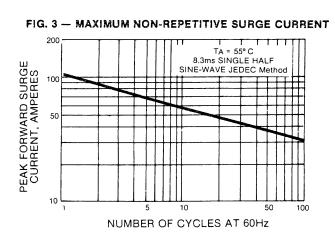


FIG. 4 — TYPICAL FORWARD CHARACTERISTICS



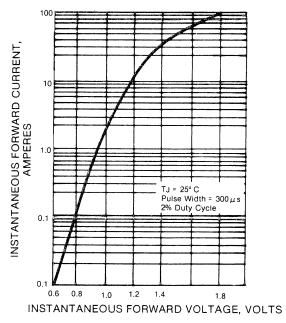


FIG. 5 — REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

