

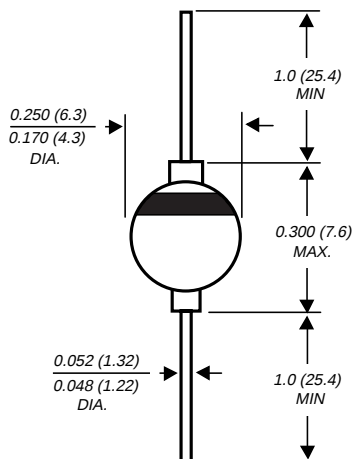
1N5624 THRU 1N5627

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 200 to 800 Volts Forward Current - 3.0 Amperes

PATENTED *

CASE STYLE G3



Dimensions in inches and (millimeters)

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

FEATURES

- ♦ Glass passivated cavity-free junction
- ♦ High temperature metallurgically bonded constructed
- ♦ Hermetically sealed package
- ♦ Capable of meeting environmental standards of MIL-S-19500
- ♦ Typical I_R less than $0.1\mu A$
- ♦ 3.0 Ampere operation at $T_A=70^\circ C$ with no thermal runaway
- ♦ High temperature soldering guaranteed: $350^\circ C/10$ 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: 0.04 ounce, 1.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25^\circ C$ ambient temperature unless otherwise specified.

	SYMBOLS	1N5624	1N5625	1N5626	1N5627	UNITS
*Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	Volts
Maximum RMS voltage	V _{RMS}	140	280	420	560	Volts
*Maximum DC blocking voltage	V _{DC}	200	400	600	800	Volts
*Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =70°C	I _(AV)	3.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125.0				Amps
*Maximum instantaneous forward voltage at 3.0A T _A =25°C T _A =70°C	V _F	1.0 0.95				Volts
*Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =175°C	I _R	5.0		300.0		μA
				200.0		
*Maximum full load reverse current, full cycle average, 0.375" (9.5mm) lead length at T _A =70°C	I _{R(AV)}	150.0		100.0		μA
Typical junction capacitance (NOTE 1)	C _J	40.0				pF
Typical thermal resistance (NOTE 2)	R _{θJA} R _{θJL}	20.0 10.0				°C/W
*Operating junction temperature range	T _J	-65 to +175				°C
*Storage temperature range	T _{STG}	-65 to +200				°C

NOTES:

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(2) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, with both leads attached between heatsinks

*JEDEC registered values

RATINGS AND CHARACTERISTIC CURVES 1N5624 THRU 1N5627

FIG. 1 - FORWARD CURRENT DERATING CURVE

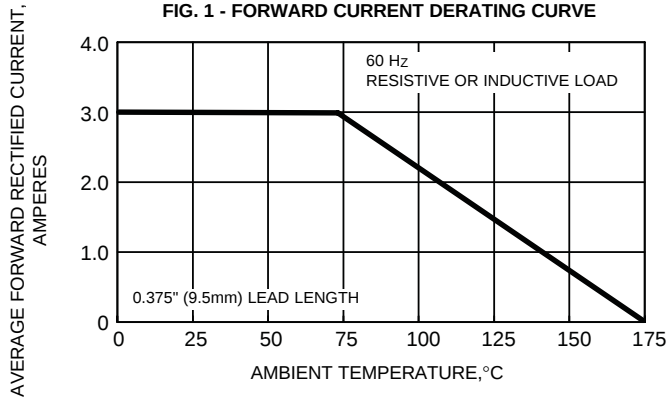


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

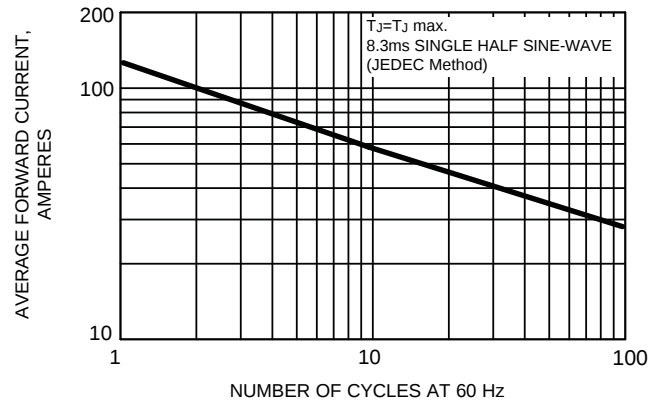


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

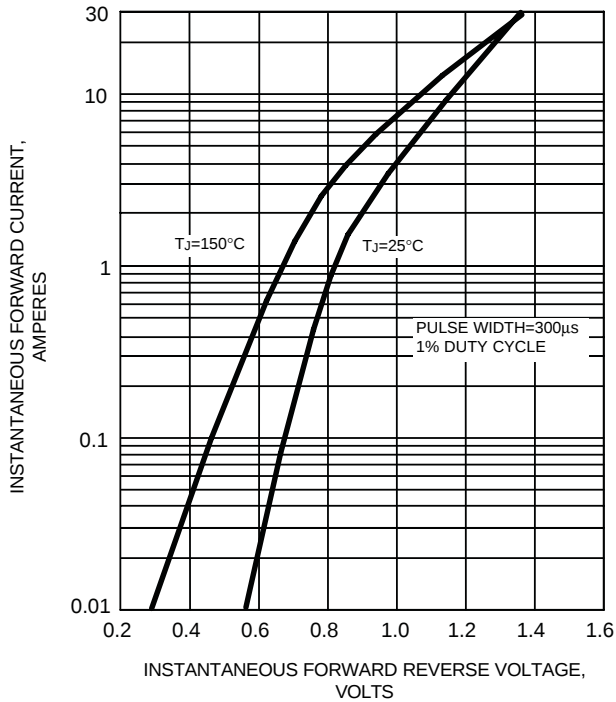


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

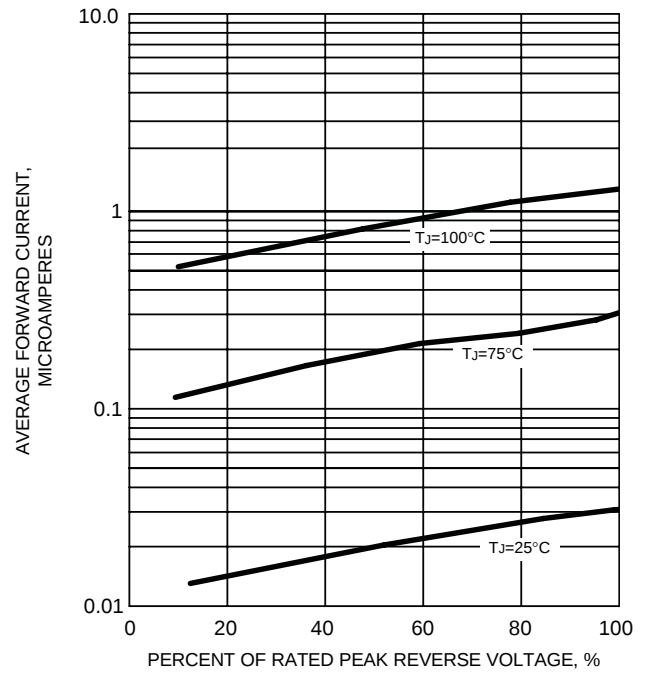


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

