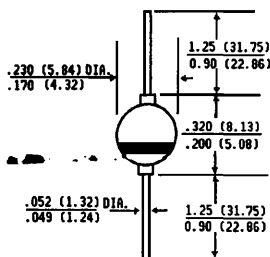




JAN AND JANTX 1N5624 THRU 1N5627

PASSIVATED JUNCTION SILICON RECTIFIER
VOLTAGE - 50 to 800 Volts CURRENT - 3.5 Amperes



Dimensions in inches
and
(millimeters)

FEATURES

- ◆ Qualified to MIL-S-19500/432
- ◆ High temperature metallurgically bonded
- ◆ Hermetically sealed package
- ◆ Glass passivated cavity-free junction
- ◆ 3.5 ampere operation at $T_A = 55^\circ\text{C}$ with no thermal runaway
- ◆ Typical I_R less than 0.1 μA
- ◆ High temperature soldering guaranteed $350^\circ\text{C}/10$ seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension

MECHANICAL DATA

Case: One piece glass, hermetically sealed
Terminals: Axial leads, solderable per MIL-STD-202, Method 208
Polarity: Colorband denotes cathode
Mounting Position: Any
Weight: .037 ounce, 1.04 gram

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	JAN 1N5624	JAN 1N5625	JAN 1N5626	JAN 1N5627	UNITS
Maximum Recurrent 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
Minimum Reverse Breakdown Voltage at $50\mu\text{A}$	V_{BR}	240	460	660	880	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	$I_{(AV)}$	3.5				Amps
Peak Forward Surge Current, 8.3.ms single half sine-wave superimposed on rated load (JEDEC Method) at $T_A = 100^\circ\text{C}$	I_{FSM}	125				Amps
Maximum Instantaneous Forward Voltage at 3.5A $T_A = 25^\circ\text{C}$ $T_A = -65^\circ\text{C}$	V_F	1.0 1.5				Volts
Maximum DC Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 150^\circ\text{C}$	I_R	1.0 100				μA
Typical Junction Capacitance (Note 1)	C_J	40.0				pf
Maximum Reverse Recovery Time (Note 2) $T_J = 25^\circ\text{C}$	T_{RR}	5.0				μs
Maximum Thermal Resistance (Note 3)	$R_{\theta J L}$	18.0				$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +200				$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc.
2. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$.
3. Thermal Resistance from Junction to Lead at .375", 9.5mm lead lengths, with both leads attached to heat sink.

MAXIMUM RATINGS AND CHARACTERISTIC CURVES JAN AND JANTX 1N5624 THRU 1N5627

FIG. 1 — FORWARD CURRENT DERATING CURVE

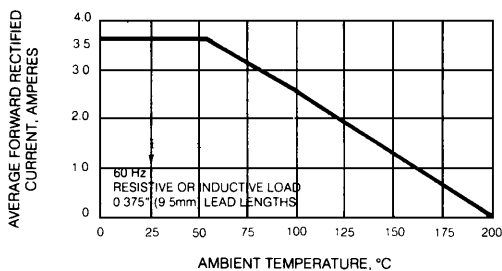


FIG. 3 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

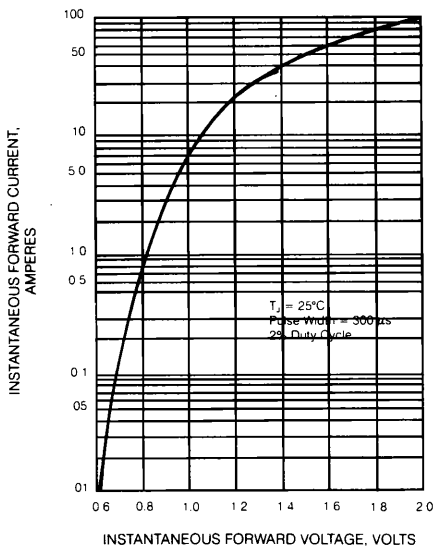


FIG. 2 — MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

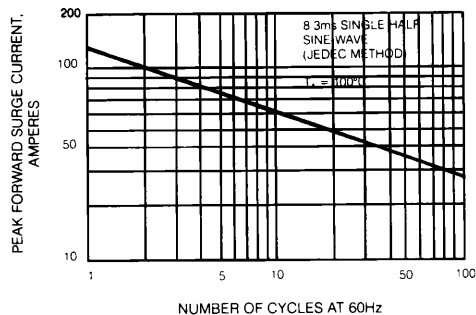


FIG. 4 — TYPICAL JUNCTION CAPACITANCE

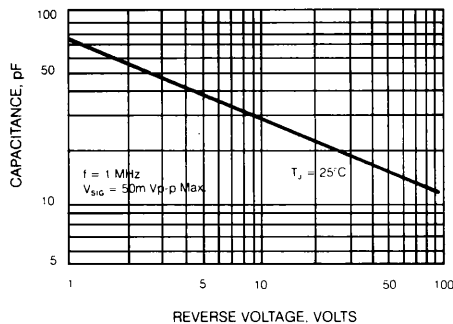


FIG. 5 — TYPICAL REVERSE CHARACTERISTICS

