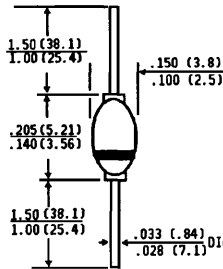




JAN AND JANTX 1N4245 THRU 1N4249

GLASS PASSIVATED JUNCTION MEDIUM SWITCHING RECTIFIERS
VOLTAGE - 200 to 1000 Volts CURRENT - 1.0 Ampere



Dimensions in inches
and
(millimeters)

FEATURES

- ◆ Qualified to MIL-S-19500/286C
- ◆ High temperature metallurgically bonded
- ◆ Glass passivated cavity-free junction
- ◆ 1.0 Ampere operation at $T_A = 100^\circ\text{C}$ with no thermal runaway
- ◆ Typical I_R less than $0.1 \mu\text{A}$
- ◆ Hermetically sealed package
- ◆ 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: Plated Axial leads, solderable per MIL-STD-202, Method 208
Polarity: Color band denotes cathode
Mounting Position: Any
Weight: .02 ounce, .56 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 1N4245	JAN 1N4246	JAN 1N4247	JAN 1N4248	JAN 1N4249	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	Volts
Minimum Reverse Breakdown Voltage at $100\mu\text{A}$	V_{BR}	240	480	720	960	1150	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length at $T_A = 100^\circ\text{C}$	$I_{(AV)}$	1.0					Amps
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at $T_A = 100^\circ\text{C}$	I_{FSM}	25.0					Amps
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.3					Volts
Maximum DC Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 150^\circ\text{C}$	I_R	1.0 150					μA
Maximum Thermal Resistance (Note 3)	$R_{\theta JA}$	50.0					$^\circ\text{C}/\text{W}$
Typical Junction Capacitance (Note 1)	C_J	15					pf
Maximum Reverse Recovery Time (Note 2)	T_{RR}	5.0					μs
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175					$^\circ\text{C}$

- NOTES: 1. Measured at 1MHz and applied reverse voltage of 4.0 volts.
 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 Ambient at .375" (9.5mm) lead lengths P.C. Board mounted.

MAXIMUM RATINGS AND CHARACTERISTIC CURVES JAN AND JANTX 1N4245 THRU 1N4249

