

RECTIFIERS

Standard Recovery, 1 Amp
Military Approved

1N5614, 1N5616, 1N5618,
1N5620,
JAN, JANTX & JANTXV

FEATURES

- Qualified to MIL-S-19500/427
- PIV: to 1000V
- Controlled Avalanche

DESCRIPTION

This series of medium power general purpose rectifiers can be used in the most demanding military supplies. Rugged mechanical integrity and tight electrical parameters make them particularly useful.

ABSOLUTE MAXIMUM RATINGS

| Peak Inverse Voltage | Type |
|----------------------|----------------------------|
| 200V | JAN, JANTX & JANTXV 1N5614 |
| 400V | JAN, JANTX & JANTXV 1N5616 |
| 600V | JAN, JANTX & JANTXV 1N5618 |
| 800V | JAN, JANTX & JANTXV 1N5620 |

VI

Maximum Average D.C. Output Current

@ $T_A = 55^\circ\text{C}$ 1.0A
 @ $T_A = 100^\circ\text{C}$ 0.75A

Non-Repetitive Sinusoidal

Surge Current (8.3ms) 30A

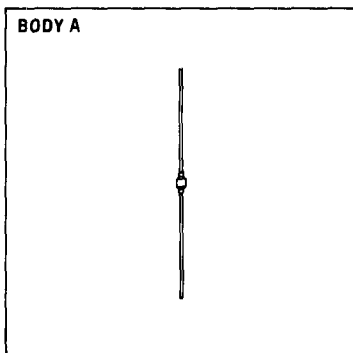
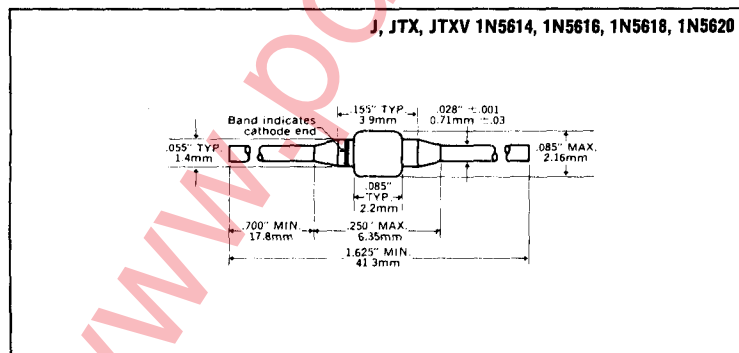
Operating Temperature Range -65°C to $+175^\circ\text{C}$

Storage Temperature Range -65°C to $+200^\circ\text{C}$

Thermal Resistance θ_{JL} @ $L = 3/8"$ 38°C/W

See Lead Temperature
Derating Curve

MECHANICAL SPECIFICATIONS



ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

| Type | PIV | Minimum Reverse Breakdown Voltage @ 50μA | Forward Voltage | | Maximum Reverse Current | | Maximum Reverse Recovery Time* |
|---------------------|------|--|-----------------|----------------------------------|-------------------------|-------|--------------------------------|
| | | | Min. | Max. | 25°C | 100°C | |
| J, JTX, JTXV 1N5614 | 200V | 220V | 0.8 | 1.3V(pk) @ 3.0A tp = 300μs | 0.5μA | 25μA | 2.0μs |
| J, JTX, JTXV 1N5616 | 400V | 440V | | | | | |
| J, JTX, JTXV 1N5618 | 600V | 660V | | | | | |
| J, JTX, JTXV 1N5620 | 800V | 880V | | | | | |

*Measured in Circuit $I_F = \frac{1}{2}A$, $I_R = 1.0A$, $I_{REC} = \frac{1}{4}A$

