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RECTIFIERS

Fast Recovery, 1 Amp

FEATURES

- Qualified to MIL-S-19500/429
- PIV: to 600V
- Controlled Avalanche

DESCRIPTION

This series of military approved rectifiers is useful in many military applications where fast recovery and medium power are required. The 100% screening requirement in the "TX" version combined with the unique Unitrode construction assures the highest degree of reliability.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage	Type
200V	1N5615
400V	1N5617
600V	1N5619

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) 25A

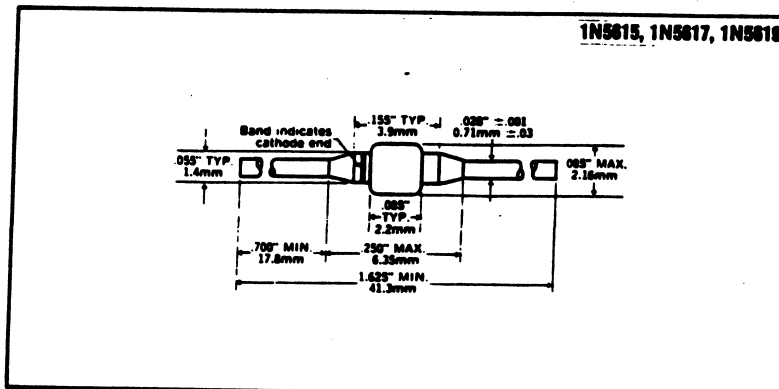
Operating Temperature Range -65°C to $+175^\circ\text{C}$

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

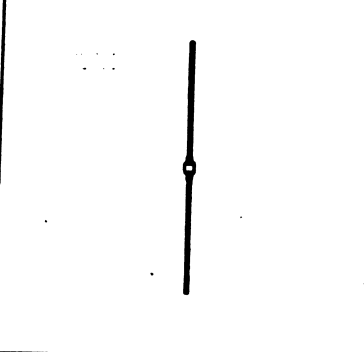
Thermal Resistance θ_{JA} 38°C/W

See Lead Temperature
Derating Curve

MECHANICAL SPECIFICATIONS



BODY A



1N5615, 1N5617, 1N5619

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Type	PIV	Minimum Reverse Breakdown Voltage @ 50 μA	Forward Voltage		Maximum Reverse Current		Maximum Reverse Recovery Time*	Capacitance @ $V_R = 12\text{V}$ $f = 1\text{MHz}$
			Min.	Max.	25°C	100°C		
J, JTX, JTXV 1N5615	200V	220V	0.8V	1.6V(pk)	0.5 μA	25 μA	150ns	45pf
J, JTX, JTXV 1N5617	400V	440V	@ 3.0 Adc tp = 300 μs		0.5 μA	25 μA	150ns	35pf
J, JTX, JTXV 1N5619	600V	660V					250ns	25pf



Quality :