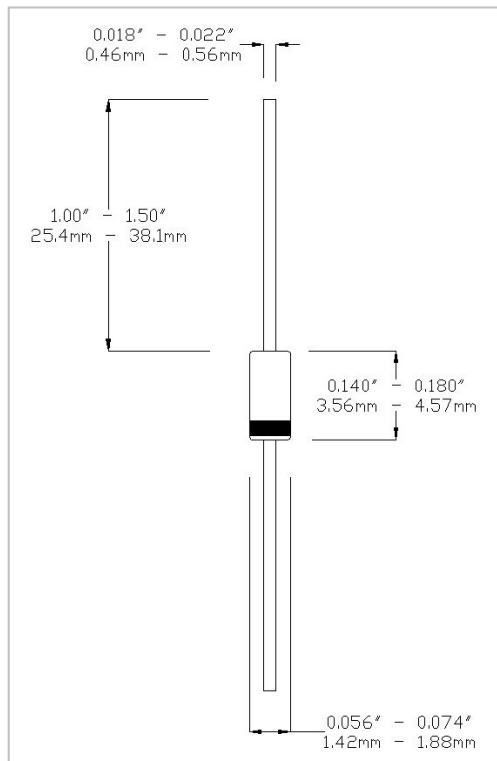


1N4150-1

FEATURES

- 1N4150-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/231
- SWITCHING DIODE
- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION



MAXIMUM RATINGS AT 25 °C

Operating Temperature:	-65°C to +175°C
Storage Temperature:	-65°C to +175°C
Surge Current A, sine 1uS:	4.0A
Surge Current B, sine 1S:	0.5A
Total Power Dissipation:	500mW
Operating Current:	200mA, $T_A = +25^\circ\text{C}$ to $+75^\circ\text{C}$
Derating Factor:	2mA/°C above T_L (3/8") = $+75^\circ\text{C}$
D.C. Reverse Voltage (VRWM):	50V

DC ELECTRICAL CHARACTERISTICS

V_F				I_R				V_{BR}			
Ambient (°C)	I_F mA	Min V	Max V	Ambient (°C)	V (dc)	Min μA	Max μA	Ambient (°C)	I_R μA	Min V	Max V
25	1	.54	.62	25	50	-	0.1	25	10	75	-
25	10	.66	.74	150	50	-	100				
25	50	.76	.86								
25	100	.82	.92								
25	200	.87	1.00								

DESIGN DATA

Case: Hermetically sealed glass package per MIL-PRF-19500/231 DO-35 outline

Lead Material: Copper clad steel

Lead Finish: Tin/Lead

Thermal Resistance ($R_{\theta JL}$): 250°C/W maximum at $L = .375"$

Thermal Impedance ($Z_{\theta JX}$): 70°C/W maximum

Marking: Alpha numeric.

Polarity: Cathode end is banded.

AC ELECTRICAL CHARACTERISTICS AT 25°C

	Symbol	Min	Max
Capacitance @ 0V	pF	-	2.5
T_{RR} @ $I_F = I_R = 10\text{mA}$, $I_{Rec} = 1\text{mA}$.	nsec	-	4
V_{FR} @ $I_F = 200\text{mA}$	V	-	5
T_{FR} @ $I_F = 200\text{mA}$	nsec	-	10



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