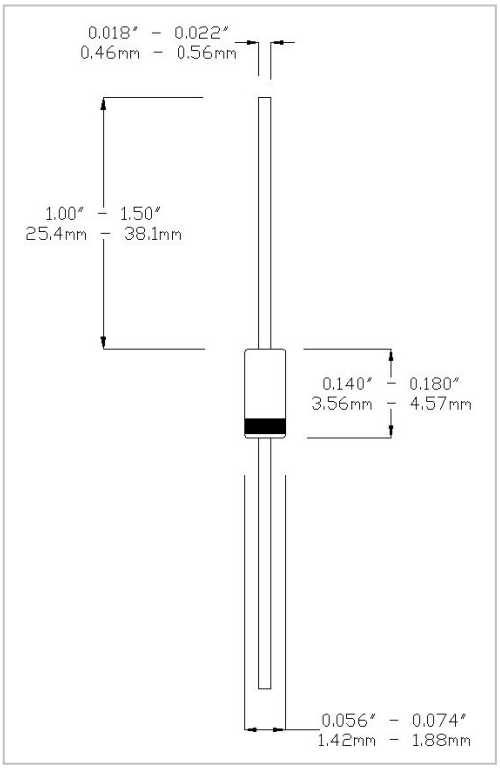
1N4938-1

FEATURES

- **1N4938-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/169**
- **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:	2.0A
Surge Current B, sine, 1S:	0.5A
Total Power Dissipation:	500mW
Operating Current:	100mA, T_A= +25°C
Derating Factor:	0.667mA/°C above T_A= +25°C
D.C. Reverse Voltage (VRWM):	175V

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	100	-	1.0	25	175	-	0.1	25	100	200	-
-55	100	-	1.2	150	175	-	100				

DESIGN DATA

Case: Hermetically sealed glass package per MIL-PRF-19500/169 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**	-	5
T_{RR} @ I_F =I_R=30mA, I_{Rec} = 3mA.	**nsec**	-	50

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