

Microsemi Corp.
The diode experts

**ALSO
AVAILABLE IN
SURFACE
MOUNT**

**1N4938 and
1N4938-1**

SANTA ANA, CA

For more information call:
(714) 979-8220

FEATURES

- MICROMINIATURE PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- JAN, TX, TXV AVAILABLE TO REQUIREMENTS OF MIL-S-19500/169

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C

Storage Temperature: -65°C to +200°C

Surge Current: 2.0 Amps @ 1 microsecond

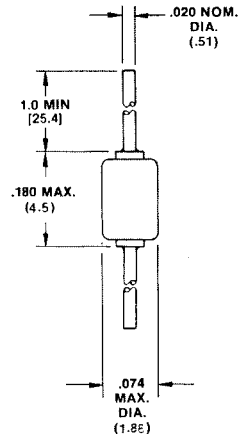
Forward Current: $I_0 = 100$ mA dc, derate at 0.667 mA/°C above $T_A = 25^\circ\text{C}$

ELECTRICAL CHARACTERISTICS at 25°C unless otherwise specified.

TYPE	FORWARD VOLTAGE DROP	BREAKDOWN VOLTAGE	REVERSE CURRENT		REVERSE RECOVERY	JUNCTION CAPACITANCE
	$V_F @ I_F$	B_V	(max) $I_R @ 175$ V		(max) (Note 1) t_{rr}	(max) C @ 0V
	Volts	V dc	nA		nsec	pF
	max		25°C	150°C		
1N4938	1.00	200	0.1	100	50.0	5.0
1N4938-1	1.00	200	0.1	100	50.0	5.0

Note 1: $I_F = I_R = 30$ mA dc, $R_L = 150$ Ohms

**MILITARY
SWITCHING
DIODES**



**FIGURE 1
PACKAGE BLX**

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed hard glass case.

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.



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