

**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

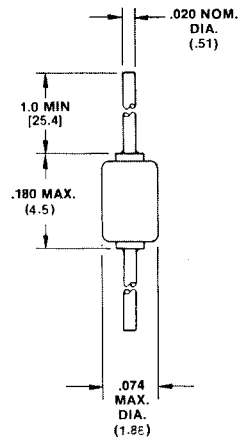
Forward Current:  $I_0 = 100$  mA dc, derate at 0.667 mA/°C above  $T_A = 25^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS at 25°C unless otherwise specified.

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

Note 1:  $I_F = I_R = 30$  mAdc,  $R_L = 150$  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.