

**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**

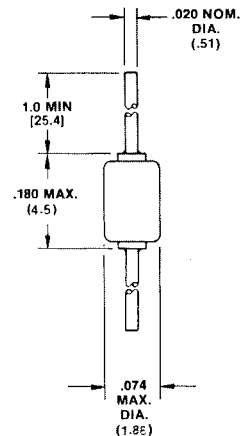
Operating Temperature: -65°C to +175°C  
 Storage Temperature: -65°C to +200°C  
 Surge Current: 2.0 Amps @ 1 microsecond  
 Forward Current:  $I_0 = 100$  mA dc, derate at 0.667 mA/°C above  $T_A = 25^\circ\text{C}$

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

TYPE	FORWARD VOLTAGE DROP	BREAKDOWN VOLTAGE	REVERSE CURRENT		REVERSE RECOVERY	JUNCTION CAPACITANCE
	$V_F @ I_F$	$B_V$	$I_R @ 175$ 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.