

**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**

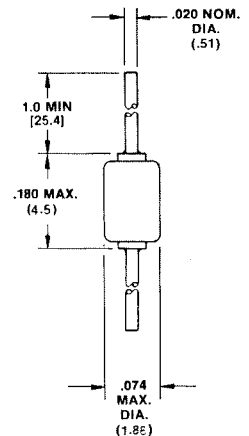
Operating Temperature: -65°C to +175°C  
 Storage Temperature: -65°C to +200°C  
 Surge Current: 2.0 Amps @ 1 microsecond  
 Forward Current: I<sub>0</sub> = 100 mA dc, derate at 0.667 mA/°C above T<sub>A</sub> = 25°C

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

TYPE	FORWARD VOLTAGE DROP V <sub>F</sub> @ I <sub>F</sub>	BREAKDOWN VOLTAGE B <sub>V</sub>	REVERSE CURRENT (max) I <sub>R</sub> @ 175 V		REVERSE RECOVERY (max) (Note 1) t <sub>rr</sub>	JUNCTION CAPACITANCE (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<sub>F</sub> = I<sub>R</sub> = 30 mA dc, R<sub>L</sub> = 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.