

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

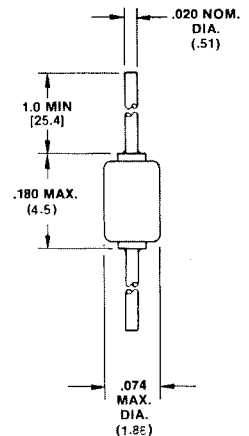
Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +200°C
Surge Current: 2.0 Amps @ 1 microsecond
Forward Current: $I_0 = 100$ mA dc, derate at 0.667 mA/°C above $T_A = 25^\circ\text{C}$

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.