



1N4148WXL

High Speed Switching Diode 200mW

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Fast Switching Speed

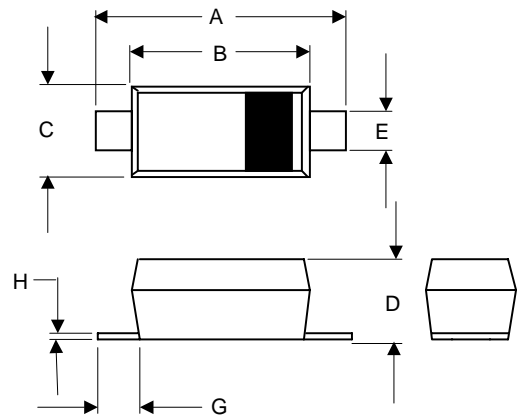
Mechanical Data

- Marking : T4/S1
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.008 grams (approx.)
- Moisture Sensitivity: Level 1 per J-STD-020C
- Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Specified

| | | | |
|---------------------------------------|----------------|-------------|-----|
| Peak Repetitive Reverse Voltage | V_{RM} | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 71 | V |
| Average Rectified Output Current | I_o | 150 | mA |
| Peak Forward Surge Current $t=1\mu s$ | I_{FSM} | 2.0 | A |
| Power Dissipation | P_D | 200 | mW |
| Thermal Resistance | R_{JA} | 625 | K/W |
| Operation/Storage Temp. Range | T_j, T_{STG} | -55 to +150 | °C |

SOD-323FL

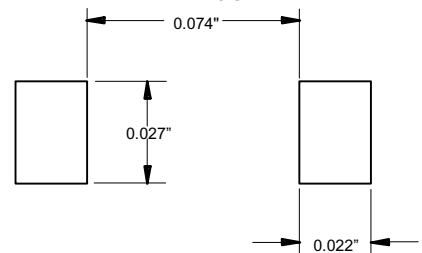


| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .090 | .107 | 2.30 | 2.70 | |
| B | .063 | .078 | 1.60 | 1.95 | |
| C | .045 | .053 | 1.15 | 1.35 | |
| D | .024 | .038 | 0.60 | 0.95 | |
| E | .010 | .016 | 0.25 | 0.40 | |
| G | .016 | | 0.40 | | |
| H | .002 | .008 | 0.05 | 0.21 | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|----------|-----------------------|---|
| Maximum Instantaneous Forward Voltage | V_F | 1.0V | $I_F = 50mA;$ $T_J = 25^\circ C$ (Note 1) |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 25nA 50µA 5.0uA | $V_R=20Volts$ $T_J = 25^\circ C$ $T_J = 150^\circ C$ $V_R=75V, T_J=25^\circ C$ |
| Typical Junction Capacitance | C_J | 4pF | $V_F=V_R=0V$ |
| Maximum Reverse Recovery Time | T_{rr} | 4nS | $I_F=50mA$ $I_{rr}=0.1I_R$ $R_L=100\Omega$ |

SUGGESTED SOLDER PAD LAYOUT



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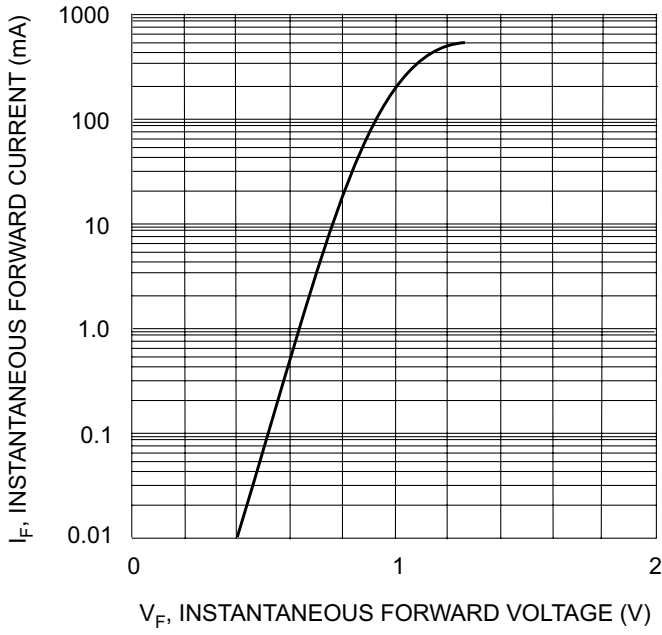


Fig. 1 Forward Characteristics

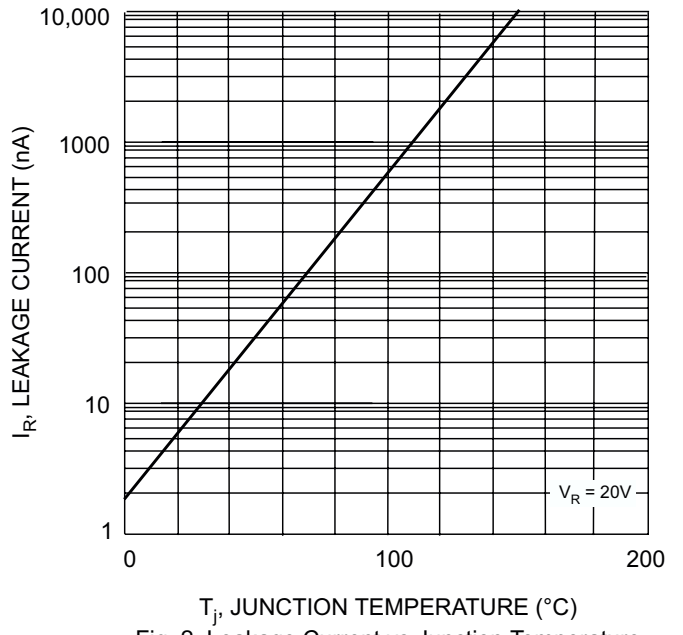


Fig. 2 Leakage Current vs Junction Temperature

Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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