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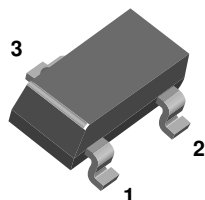
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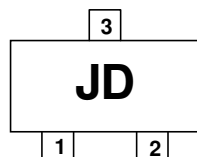
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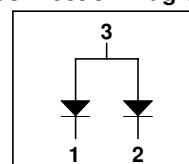
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SOT-23



Connection Diagram



Small Signal Diode

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|--------------------|--|-------------|--------|
| V _{RRM} | Maximum Repetitive Reverse Voltage | 50 | V |
| I _{F(AV)} | Average Rectified Forward Current | 200 | mA |
| I _{FSM} | Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond | 1.0 2.0 | A A |
| T _{stg} | Storage Temperature Range | -55 to +150 | °C |
| T _J | Operating Junction Temperature | 150 | °C |

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

NOTES:

- 1) These ratings are based on a maximum junction temperature of 150 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Thermal Characteristics


| Symbol | Parameter | Value | Units |
|------------------|---|-------|-------|
| P _D | Power Dissipation | 350 | mW |
| R _{θJA} | Thermal Resistance, Junction to Ambient | 357 | °C/W |

Electrical Characteristics

T_A = 25°C unless otherwise noted

| Symbol | Parameter | Test Conditions | Min | Max | Units |
|------------------|-----------------------|--|-----|-----|-------|
| V _R | Breakdown Voltage | I _R = 100 μA | 50 | | V |
| V _F * | Forward Voltage | I _F = 100 mA | | 1.0 | V |
| I _R * | Reverse Current | V _R = 50 V, T _A = 150°C | | 100 | μA |
| C _T | Total Capacitance | V _R = 0, f = 1.0 MHz | | 2.0 | pF |
| t _{rr} | Reverse Recovery Time | I _F = I _R = 10 mA, I _{RR} = 1.0 mA, R _L = 100 Ω | | 4.0 | ns |

* Pulse test : Pulse width=300us, Duty Cycle=2%

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