

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

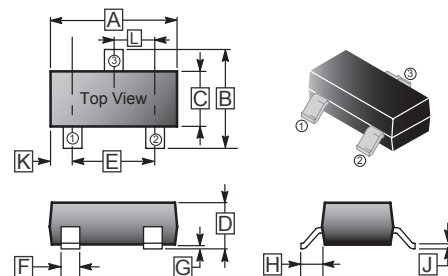
DESCRIPTIONS AND FEATURES

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection

SC-59

PACKAGE INFORMATION

- Case: Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Polarity: See the center diagram
- Weight: 0.0123 g (approximately)



MARKING CODE


LV6⁻



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 2.70 | 3.10 | G | 0.10 REF. | |
| B | 2.25 | 3.00 | H | 0.40 REF. | |
| C | 1.30 | 1.70 | J | 0.10 | 0.20 |
| D | 1.00 | 1.40 | K | 0.45 | 0.55 |
| E | 1.70 | 2.30 | L | 0.85 | 1.15 |
| F | 0.35 | 0.50 | | | |

ABSOLUTE MAXIMUM RATINGS (at T_A = 25°C unless otherwise specified)

| Parameter | Symbol | Ratings | Unit |
|---|-----------------------------------|------------------|------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 40 | V |
| Maximum RMS Voltage | V _{RPS} | 28 | V |
| Maximum DC Blocking Voltage | V _{DC} | 40 | V |
| Peak Forward Surge Current at 8.3 m Sec single half sine-wave | I _{FSM} | 1.0 | A |
| Maximum Average Forward Rectified Current | I _O | 0.1 | A |
| Typical Junction Capacitance between Terminal | C _J | 6.0 | pF |
| Total Power Dissipation | P _D | 225 | mW |
| Junction, Storage Temperature | T _J , T _{STG} | +125, -40 ~ +125 | °C |

Note: 60Hz for 1 

ELECTRICAL CHARACTERISTICS (at T_A = 25°C unless otherwise specified)

| Parameters | Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|--|-------------------|------|------|------|------|---------------------------|
| Maximum Instantaneous Forward Voltage | V _{F(1)} | - | 0.55 | - | V | I _{F(1)} = 100mA |
| | V _{F(2)} | - | 0.34 | - | - | I _{F(2)} = 10mA |
| Maximum Average Reverse Current | I _R | - | 30.0 | - | uA | V _R = 10V |
| Junction capacitance between terminals | C _J | - | 6.0 | - | pF | |

Note: ESD sensitive product handling required.

RATINGS AND CHARACTERISTIC CURVES

