

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

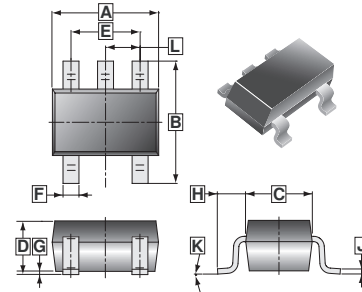
**FEATURES**

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability

**MECHANICAL DATA**

- Case: SOT-353, Molded Plastic
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: See Diagrams Below
- Mounting position: Any

**SOT-353**



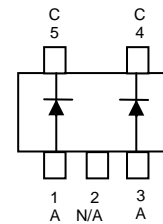
| REF. | Millimeter |      | REF. | Millimeter |      |
|------|------------|------|------|------------|------|
|      | Min.       | Max. |      | Min.       | Max. |
| A    | 2.00       | 2.20 | G    | 0.100 REF. |      |
| B    | 2.15       | 2.45 | H    | 0.525 REF. |      |
| C    | 1.15       | 1.35 | J    | 0.08       | 0.15 |
| D    | 0.90       | 1.10 | K    | 8°         |      |
| E    | 1.20       | 1.40 | L    | 0.650 TYP. |      |
| F    | 0.15       | 0.35 |      |            |      |

**MARKING**

3T

**PACKAGE INFORMATION**

| Package | MPQ | Leader Size |
|---------|-----|-------------|
| SOT-353 | 3K  | 7 inch      |



**ABSOLUTE MAXIMUM RATINGS**

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

| Parameter                     | Symbol         | Ratings         | Unit |
|-------------------------------|----------------|-----------------|------|
| Peak reverse voltage          | $V_{RM}$       | 45              | V    |
| Reverse Voltage               | $V_R$          | 40              | V    |
| Peak forward current          | $I_{FM}$       | 1               | A    |
| Mean rectifying current       | $I_O$          | 100             | mA   |
| Junction, Storage Temperature | $T_J, T_{STG}$ | 150, -55 ~ +150 | °C   |

**ELECTRICAL CHARACTERISTICS** ( $T_a = 25^\circ\text{C}$  unless otherwise specified)

| Parameters                    | Symbol | Min. | TYP. | Max. | Unit          | Test Conditions            |
|-------------------------------|--------|------|------|------|---------------|----------------------------|
| Forward Voltage               | $V_F$  | -    | -    | 450  | mV            | $I_F = 10\text{mA}$        |
|                               |        | -    | -    | 600  |               | $I_F = 100\text{mA}$       |
| Reverse Current               | $I_R$  | -    | -    | 1    | $\mu\text{A}$ | $V_R = 10\text{V}$         |
|                               |        | -    | -    | 5    |               | $V_R = 40\text{V}$         |
| Capacitance between terminals | $C_T$  | -    | 6    | -    | pF            | $V_R = 0, f = 1\text{MHz}$ |