Elektronische Bauelemente

# SCS480N

**VOLTAGE 45 V, 1 A**

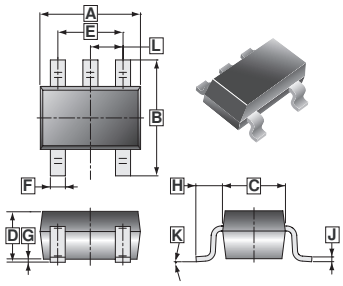
**Small Signal Schottky Plastic-Encapsulate Diode**

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

**SOT-353**

## FEATURES

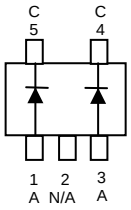
- Low current rectification
- High reliability




| 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




## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

| TYPE NUMBER | SYMBOL | VALUE | UNIT |
|---|---|---|---|
| Peak Reverse Voltage | $V_{RM}$ | 45 | V |
| DC Reverse | $V_R$ | 40 | V |
| Peak Forward Current | $I_{FM}$ | 1 | A |
| Mean Rectifying Current | $I_O$ | 0.1 | A |
| Junction & Storage Temperature | $T_J$,$T_{STG}$ | 125, -40~125 | ℃ |

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

| PARAMETER | SYMBOL | TYP | MAX | UNIT | TEST CONDITION |
|---|---|---|---|---|---|
| Reverse Current | $I_R$ | | 1 | μA | $V_R$=10V |
| | | | 5 | μA | $V_R$=40V |
| Forward Voltage | $V_F$ | | 450 | mV | $I_F$=10mA |
| | | | 600 | mV | $I_F$=100mA |
| Capacitance between Terminals | $C_T$ | | 25 | pF | $V_R$=0V |
| | | 6 | | pF | $V_R$=10V, f=1MHz |

## RATINGS AND CHARACTERISTIC CURVES

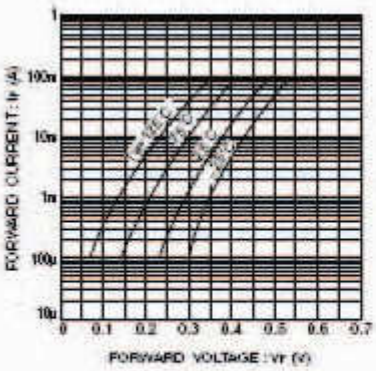



Fig.1 Foward temperature chraracteristics

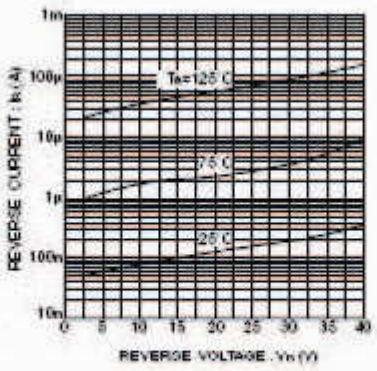



Fig.2 Reverse temperature chraracteristics

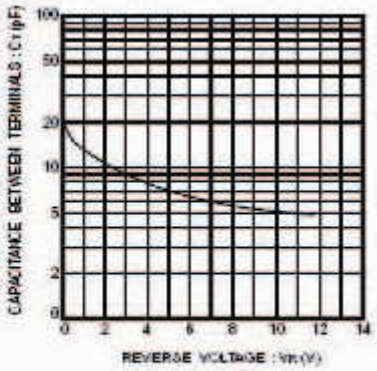



Fig.3 Capacitance between terminals chraracteristics

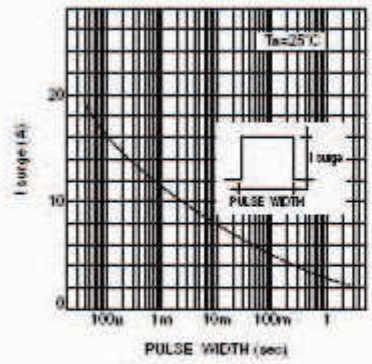



Fig.4 Surge current chraracteristics