## SCHOTTKY BARRIER DIODE

## Features

- Low power rectified
- Silicon epitaxial type
- High reliability

PINNING

| PIN | DESCRIPTION |
| :---: | :--- |
| 1 | Cathode |
| 2 | Anode |



Top View
Marking Code: "G"
Simplified outline SOD-523 and symbol

Absolute Maximum Ratings ( $\mathrm{T}_{\mathrm{a}}=25^{\circ} \mathrm{C}$ )

| Parameter | Symbol | Value | Unit |
| :--- | :---: | :---: | :---: |
| Reverse Voltage | $\mathrm{V}_{\mathrm{R}}$ | 30 | V |
| Forward Current | $\mathrm{I}_{\mathrm{F}}$ | 0.2 | A |
| Repetitive Peak Forward Current | $\mathrm{I}_{\text {FRM }}$ | 0.5 | A |
| Non-Repetitive Peak Forward Current (10 ms) | $\mathrm{I}_{\text {FSM }}$ | 2 | A |
| Power Dissipation | $\mathrm{P}_{\mathrm{D}}$ | 150 | mW |
| Junction Temperature | $\mathrm{T}_{\mathrm{j}}$ | 150 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature Range | $\mathrm{T}_{\mathrm{s}}$ | -55 to +150 | ${ }^{\circ} \mathrm{C}$ |

Characteristics at $\mathrm{T}_{\mathrm{a}}=25^{\circ} \mathrm{C}$

| Parameter | Symbol | Max. | Unit |
| :--- | :---: | :---: | :---: |
| Forward Voltage <br> at $I_{F}=10 \mathrm{~mA}$ <br> at $\mathrm{I}_{\mathrm{F}}=30 \mathrm{~mA}$ | $\mathrm{~V}_{\mathrm{F}}$ | 0.4 | V |
| Reverse Current <br> at $\mathrm{V}_{\mathrm{R}}=30 \mathrm{~V}$ | $\mathrm{I}_{\mathrm{R}}$ | 0.5 | MA |
| Total Capacitance <br> at $\mathrm{V}_{\mathrm{R}}=1 \mathrm{~V}, \mathrm{f}=1 \mathrm{MHz}$ | $\mathrm{C}_{\mathrm{T}}$ | 10 | pF |
| Reverse Recovery Time <br> at $\mathrm{I}_{\mathrm{F}}=\mathrm{I}_{\mathrm{R}}=10 \mathrm{~mA}, \mathrm{I}_{\mathrm{RR}}=1 \mathrm{~mA}, \mathrm{R}_{\mathrm{L}}=100 \Omega$ | $\mathrm{t}_{\mathrm{rr}}$ | 5 | ns |

Fig. $1 \mathrm{I}_{\mathrm{F}}-\mathrm{V}_{\mathrm{F}}$


Fig. $3 \mathrm{C}_{\mathrm{T}}-\mathrm{V}_{\mathrm{R}}$


Fig. $2 I_{R}-V_{R}$


## PACKAGE OUTLINE



| UNIT | A | $\mathrm{b}_{\mathrm{p}}$ | C | D | E | $\mathrm{H}_{\mathrm{E}}$ | V | $\angle$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0.70 | 0.4 | 0.135 | 1.25 | 0.85 | 1.7 | 0.1 | $5^{\circ}$ |
|  | 0.60 | 0.3 | 0.127 | 1.15 | 0.75 | 1.5 |  |  |

