PINNING

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



Top View
Marking Code: "SE"
Simplified outline SOD-123 and symbol

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

| Parameter | Symbol | Value | Unit |
| :--- | :---: | :---: | :---: |
| Repetitive Peak Reverse Voltage | $\mathrm{V}_{\mathrm{RRM}}$ | 30 | V |
| Non-Repetitive Peak Reverse Voltage | $\mathrm{V}_{\mathrm{RSM}}$ | 30 | V |
| Maximum DC Blocking Voltage | $\mathrm{V}_{\mathrm{R}}$ | 30 | V |
| Average Forward Rectified Current | $\mathrm{I}_{\mathrm{F}(\mathrm{AV})}$ | 0.5 | A |
| Peak Forward Surge Current (8.3 ms Single Half Sine-wave) | $\mathrm{I}_{\text {FSM }}$ | 5.5 | A |
| Thermal Resistance Junction to Lead | $\mathrm{R}_{\text {өJL }}$ | 150 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| Thermal Resistance Junction to Ambient ${ }^{1)}$ | $\mathrm{R}_{\text {өJA }}$ | 206 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| Operating Junction Temperature | $\mathrm{T}_{\mathrm{J}}$ | -65 to +125 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature Range | $\mathrm{T}_{\text {stg }}$ | -65 to +125 | ${ }^{\circ} \mathrm{C}$ |

${ }^{1)} 1$ inch square pad size ( $1 \times 0.5$ inch for each lead) on FR4 board

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

| Parameter | Symbol | Max. | Unit |
| :---: | :---: | :---: | :---: |
| $\begin{array}{c}\text { Forward Voltage } \\ \text { at } \mathrm{I}_{F}=100 \mathrm{~mA} \\ \text { at } \mathrm{I}_{\mathrm{F}}=500 \mathrm{~mA}\end{array}$ |  |  |  |
| Reverse Current | $\mathrm{V}_{F}$ | 0.375 | V |
| at $\mathrm{V}_{\mathrm{R}}=30 \mathrm{~V}$ |  |  |  |
| at $\mathrm{V}_{\mathrm{R}}=15 \mathrm{~V}$ |  |  | 0.5 |$]$



Figure 1. Typical Forward Voltage


Figure 2. Typical Reverse Current


Figure 3. Typical Capacitance

## PACKAGE OUTLINE



| UNIT | A | $\mathrm{b}_{\mathrm{p}}$ | c | D | E | $\mathrm{H}_{\mathrm{E}}$ | v | $\angle$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | 1.15 | 0.6 | 0.135 | 2.7 | 1.65 | 3.9 | 0.2 | $5^{\circ}$ |

