## BA892WT

## SILICON BAND SWITCHING DIODE

## Applications

for band switching in VHF television tuners and surface mount band switching circuits

PINNING

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



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

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

| Parameter | Symbol | Value | Unit |
| :--- | :---: | :---: | :---: |
| Reverse Voltage | $\mathrm{V}_{\mathrm{R}}$ | 35 | V |
| Forward Current | $\mathrm{I}_{\mathrm{F}}$ | 100 | mA |
| Junction Temperature | $\mathrm{T}_{J}$ | 150 | ${ }^{\circ} \mathrm{C}$ |
| Operating Temperature Range | $\mathrm{T}_{\mathrm{op}}$ | -55 to +125 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature Range | $\mathrm{T}_{\text {stg }}$ | -55 to +150 | ${ }^{\circ} \mathrm{C}$ |

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

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Reverse Current <br> at $\mathrm{V}_{\mathrm{R}}=20 \mathrm{~V}$ | $\mathrm{I}_{\mathrm{R}}$ | - | - | 20 | nA |
| Forward Voltage <br> at $\mathrm{I}_{\mathrm{F}}=100 \mathrm{~mA}$ | $\mathrm{~V}_{\mathrm{F}}$ | - | - | 1 | V |
| Diode Capacitance <br> at $\mathrm{V}_{\mathrm{R}}=1 \mathrm{~V}, \mathrm{f}=1 \mathrm{MHz}$ <br> at $\mathrm{V}_{\mathrm{R}}=3 \mathrm{~V}, \mathrm{f}=1 \mathrm{MHz}$ <br> at $\mathrm{V}_{\mathrm{R}}=0 \mathrm{~V}, \mathrm{f}=100 \mathrm{MHz}$ | $\mathrm{C}_{\mathrm{T}}$ | 0.65 | - | 1.4 | pF |
| Forward Resistance <br> at $\mathrm{I}_{\mathrm{F}}=3 \mathrm{~mA}, \mathrm{f}=100 \mathrm{MHz}$ <br> at $\mathrm{I}=10 \mathrm{~mA}, \mathrm{f}=100 \mathrm{MHz}$ |  | 0.6 | - | 1.1 | D |
| Series Inductance | $\mathrm{r}_{\mathrm{f}}$ | - | 1 | - |  |

Diode capacitance $C_{T}=f\left(V_{\mathrm{R}}\right)$
$f=$ Parameter


Forward resistance $r_{\mathrm{f}}=f\left(/_{\mathrm{F}}\right)$
$f=100 \mathrm{MHz}$


Reverse parallel resistance $R_{\mathrm{P}}=f\left(V_{\mathrm{R}}\right)$ $f=$ Parameter


Forward current $/ \mathrm{F}=f\left(V_{\mathrm{F}}\right)$
$T_{\mathrm{A}}=$ Parameter

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## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads


| 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 |  |  |

