



## DESCRIPTION

Silicon epitaxial planar.

The RB550V-30 is available in SOD-523 package.

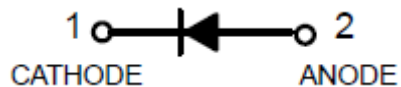
## FEATURES

- Small surface mounting type
- Low  $V_F$ , Low  $I_R$
- High reliability
- Available in SOD-523 package

## ORDERING INFORMATION

| Package Type                             | Part Number   |
|------------------------------------------|---------------|
| SOD-523                                  | RB550V-30     |
| Note                                     | 3,000pcs/Reel |
| AiT provides all RoHS Compliant Products |               |

## PIN DESCRIPTION



## APPLICATIONS

- General rectification



## ABSOLUTE MAXIMUM RATINGS

$T_A = 25^{\circ}\text{C}$

|                                              |                |
|----------------------------------------------|----------------|
| $V_{RM}$ , Reverse voltage (repetitive peak) | 30V            |
| $V_R$ , Reverse voltage (DC)                 | 30V            |
| $I_o$ , Average rectified forward current    | 1A             |
| $I_{FSM}$ , Forward current surge peak       | 3A             |
| $T_J$ , Junction temperature                 | 150°C          |
| $T_{stg}$ , Storage temperature              | -40°C ~ +150°C |

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

## ELECTRICAL CHARACTERISTICS

$T_A = 25^{\circ}\text{C}$

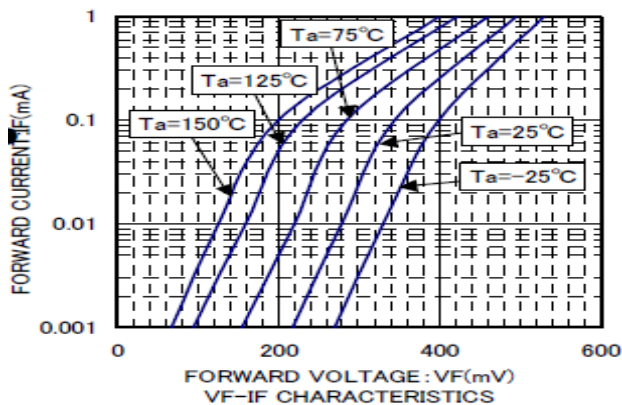
| Parameter       | Symbol   | Conditions         | Min. | Typ. | Max. | Unit          |
|-----------------|----------|--------------------|------|------|------|---------------|
| Forward voltage | $V_{F1}$ | $I_F=100\text{mA}$ | -    | -    | 0.39 | V             |
|                 | $V_{F2}$ | $I_F=700\text{mA}$ | -    | -    | 0.49 | V             |
|                 | $V_{F3}$ | $I_F=1\text{A}$    | -    | -    | 0.52 | $\mu\text{A}$ |
| Reverse current | $I_R$    | $V_R=10\text{V}$   | -    | 1    | 30   | $\mu\text{A}$ |



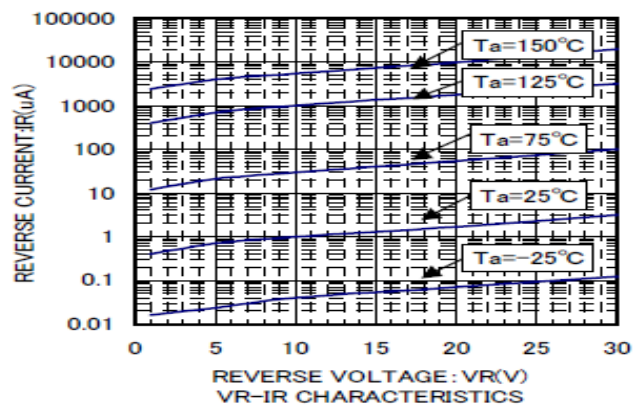
## TYPICAL CHARACTERISTICS

$T_A = 25^\circ\text{C}$

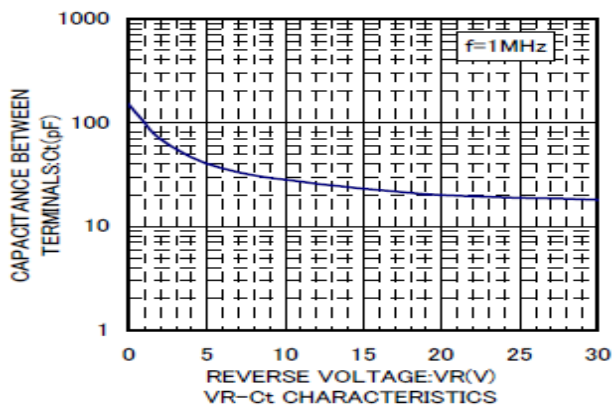
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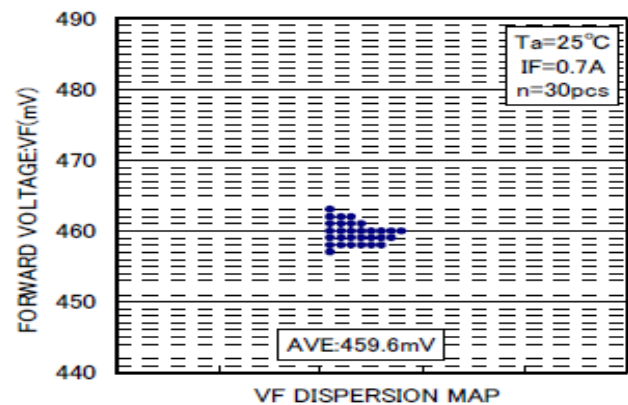
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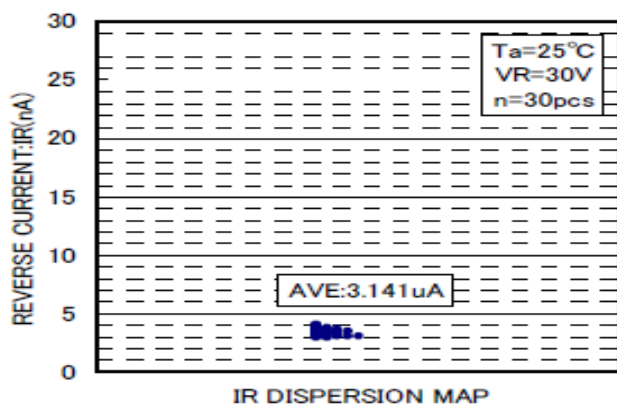
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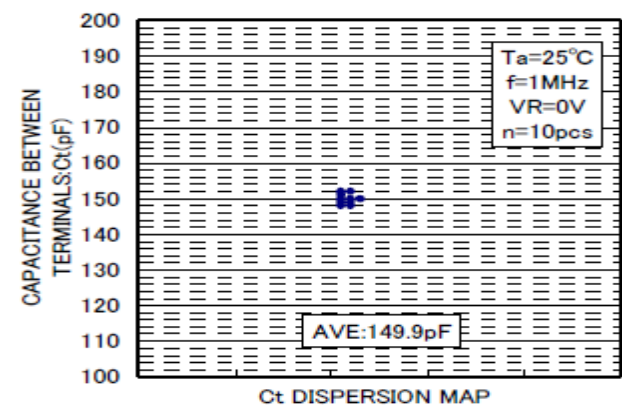
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5.

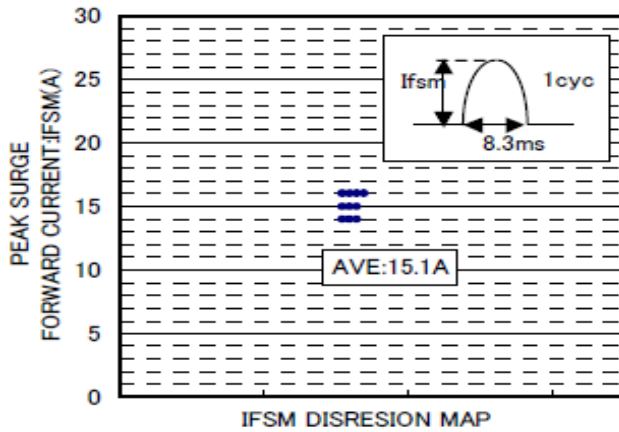


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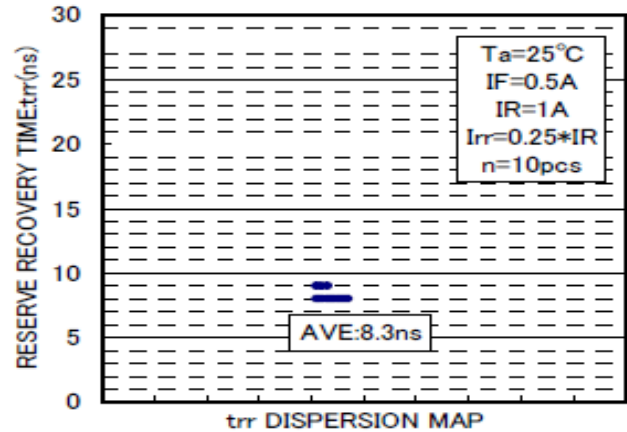




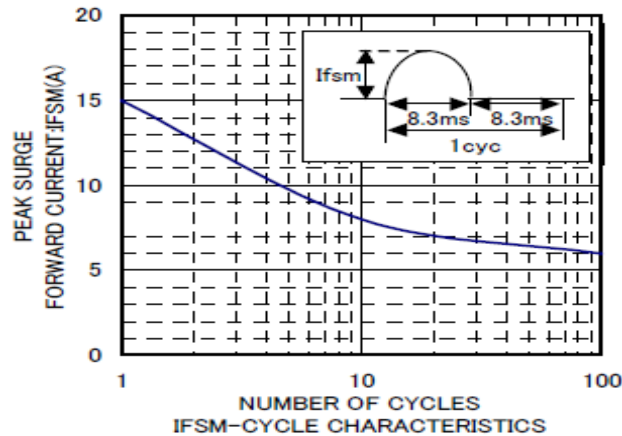
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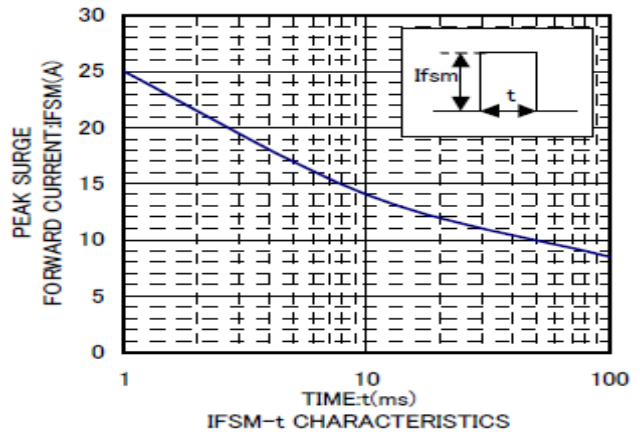
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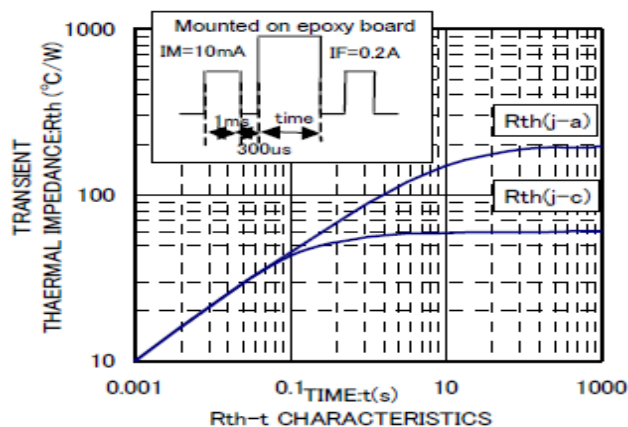
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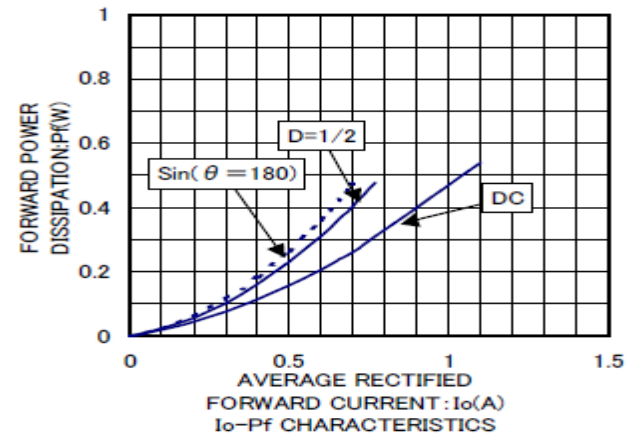
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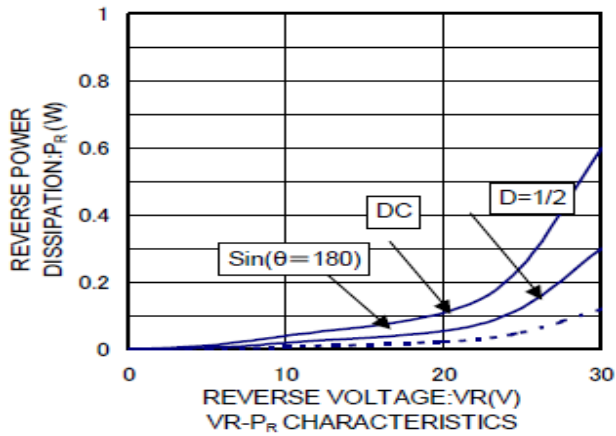


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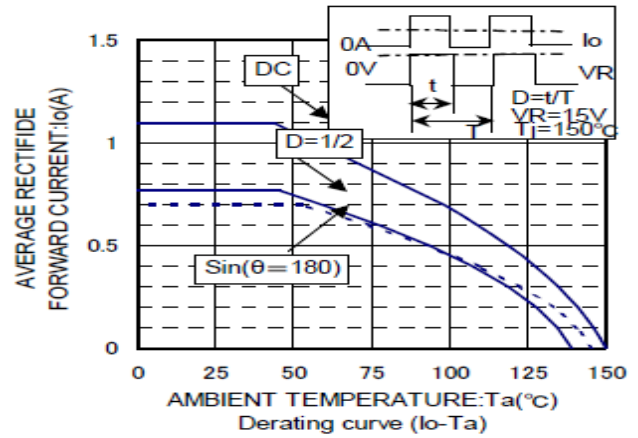




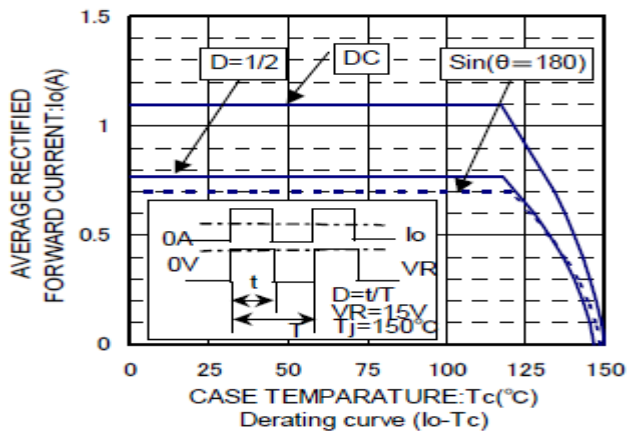
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14.



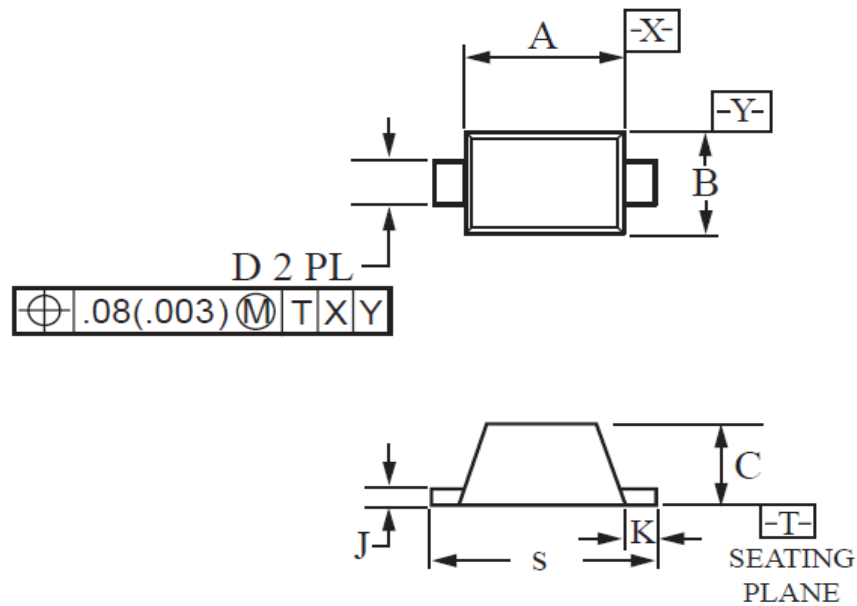
15.





## PACKAGE INFORMATION

Dimension in SOD-523 Package (Unit: mm)



| DIM | INCHES |      | MILLIMETERS |        |
|-----|--------|------|-------------|--------|
|     | MIN    | MAX  | MIN         | MAX    |
| A   | 1.10   | 1.30 | 0.043       | 0.051  |
| B   | 0.70   | 0.90 | 0.028       | 0.035  |
| C   | 0.50   | 0.70 | 0.020       | 0.028  |
| D   | 0.25   | 0.35 | 0.010       | 0.014  |
| J   | 0.07   | 0.20 | 0.0028      | 0.0079 |
| K   | 0.15   | 0.25 | 0.006       | 0.010  |
| S   | 1.50   | 1.70 | 0.059       | 0.067  |



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