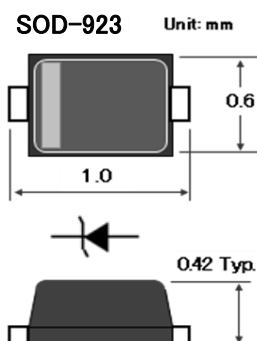


- ◇ Low current rectification
- ◇ Low forward voltage
- ◇ **SOD-923** Micro SMD package
- ◇ RoHS compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Cathode Band / Device marking:
- ◇ AEC-Q101 Compliant

| Device Marking Code |           |
|---------------------|-----------|
| <b>RB521SM9-30</b>  | <b>F5</b> |


**Absolute Maximum Ratings (Ta = 25 °C)**

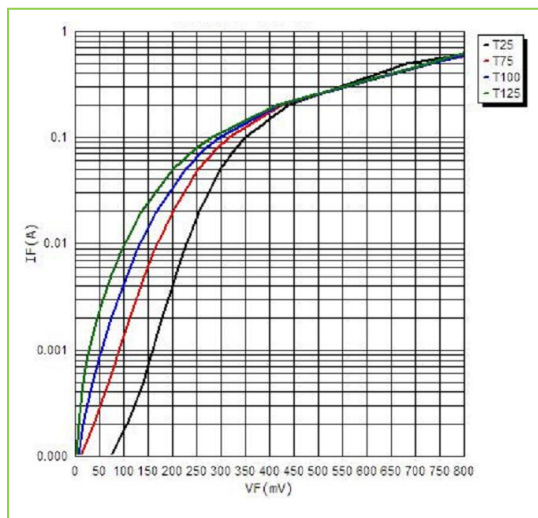
| Symbol    | Parameter                              | Value       | Units |
|-----------|----------------------------------------|-------------|-------|
| $V_{RRM}$ | Repetitive Peak Reverse Voltage        | 40          | V     |
| $V_R$     | Reverse Voltage                        | 30          | V     |
| $I_O$     | Continuous Forward Current             | 200         | mA    |
| $I_{FSM}$ | Non-Repetitive Peak Forward Current *1 | 1           | A     |
| $T_J$     | Junction Temperature                   | 125         | °C    |
| $T_{STG}$ | Storage Temperature                    | -55 to +125 | °C    |

\*1: 8.3ms Single Half Sine-Wave

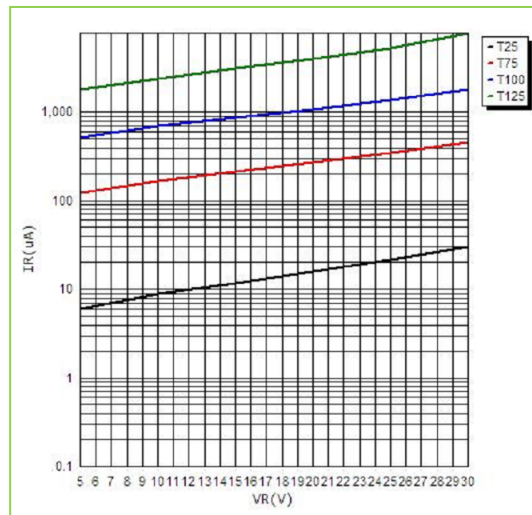
**Electrical Characteristics (Ta = 25 °C)**

| Symbol | Parameter         | Conditions             | Min | Typ | Max  | Units         |
|--------|-------------------|------------------------|-----|-----|------|---------------|
| $V_F$  | Forward Voltage   | $I_F = 10\text{mA}$    |     |     | 0.35 | V             |
|        |                   | $I_F = 200\text{mA}$   |     |     | 0.50 | V             |
| $BV_R$ | Breakdown Voltage | $I_R = 500\mu\text{A}$ | 40  |     |      | V             |
| $I_R$  | Reverse Current   | $V_R = 10\text{V}$     |     |     | 30   | $\mu\text{A}$ |
|        |                   | $V_R = 20\text{V}$     |     |     | 100  | $\mu\text{A}$ |

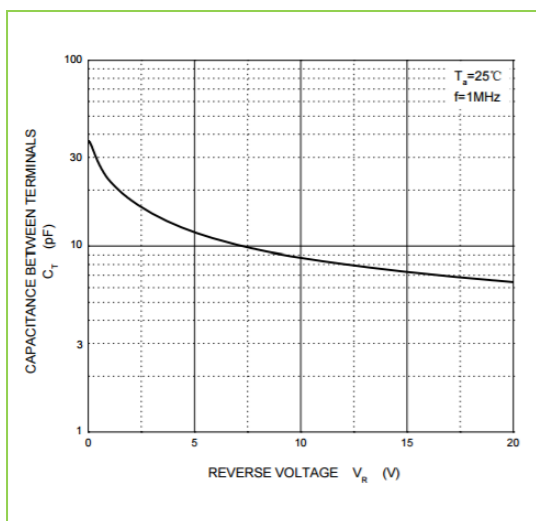
## Characteristics Curves



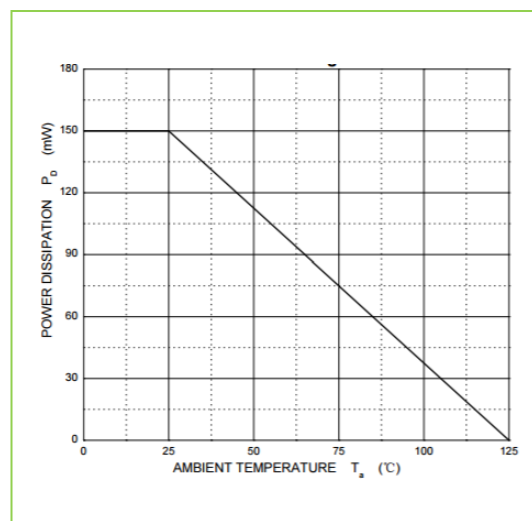
Forward current( $I_F$ ) vs Forward voltage( $V_F$ )



Reverse current( $I_R$ ) vs Reverse voltage( $V_R$ )



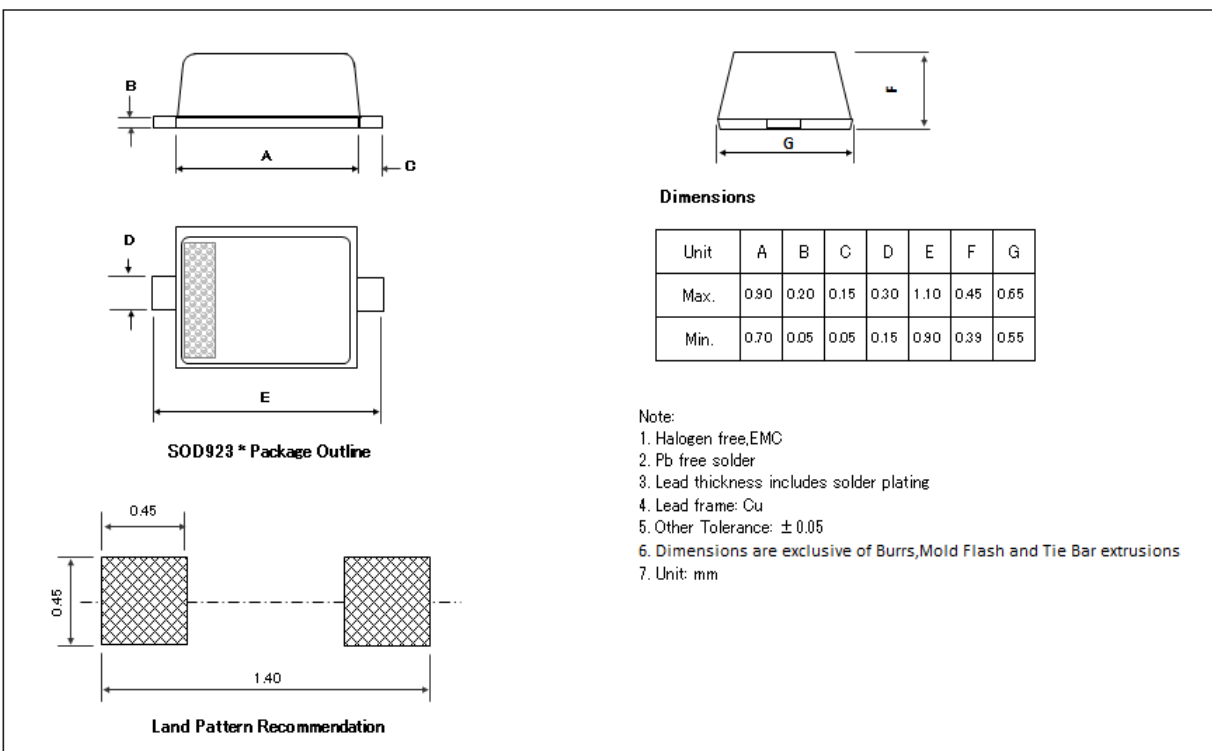
Capacitance Characteristics



Power Derating Curve

**Ordering Information**

| Device      | Package | Shipping               | Tape wide | Emboss pitch | Tape specification | Notes |
|-------------|---------|------------------------|-----------|--------------|--------------------|-------|
| RB521SM9-30 | SOD-923 | 8,000 pcs /<br>7" Reel | 8 mm      | 2 mm         | Conductive         |       |

**Package Dimensions**


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