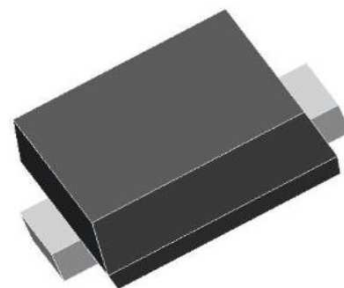


**Small Signal Product**

**High Speed SMD Switching Diode**

**FEATURES**

- Fast switching device ( $t_{rr} < 4.0\text{ns}$ )
- Surface Mount Device Type
- Moisture sensitivity level 1
- Pb free and RoHS compliant
- Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code



**SOD-923F**



**MECHANICAL DATA**

- Case: Flat lead SOD-923F small outline plastic package
- Terminal: Matte tin plated, lead free , solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: 260°C/10s
- Polarity: Indicated by cathode band
- Marking Code: 7

| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted) |             |              |                  |
|---------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| PARAMETER                                                                                         | SYMBOL      | LIMIT        | UNIT             |
| Peak Reverse Voltage                                                                              | $V_{RM}$    | 90           | V                |
| DC Reverse Voltage                                                                                | $V_R$       | 80           | V                |
| Peak Forward Current                                                                              | $I_{FM}$    | 225          | mA               |
| Mean Rectifying Current                                                                           | $I_O$       | 100          | mA               |
| Surge Current( $t=1\text{s}$ )                                                                    | $I_{Surge}$ | 500          | mA               |
| Junction Temperature                                                                              | $T_j$       | 150          | $^\circ\text{C}$ |
| Storage Temperature                                                                               | $T_{stg}$   | -55 to + 150 | $^\circ\text{C}$ |

| PARAMETER                     | SYMBOL   | MIN | TYP | MAX | TEST CONDITION                                              | UNIT          |
|-------------------------------|----------|-----|-----|-----|-------------------------------------------------------------|---------------|
| Forward Voltage               | $V_F$    |     |     | 1.2 | $I_F = 100\text{mA}$                                        | V             |
| Reverse Current               | $I_R$    |     |     | 0.1 | $V_R = 80\text{V}$                                          | $\mu\text{A}$ |
| Capacitance Between Terminals | $C_r$    |     |     | 3   | $V_R = 0.5\text{V}$ , $f = 1\text{MHZ}$                     | pF            |
| Reverse Recovery Time         | $t_{rr}$ |     |     | 4   | $V_R = 6\text{V}$ , $I_F = 10\text{mA}$ , $R_L = 100\Omega$ | ns            |

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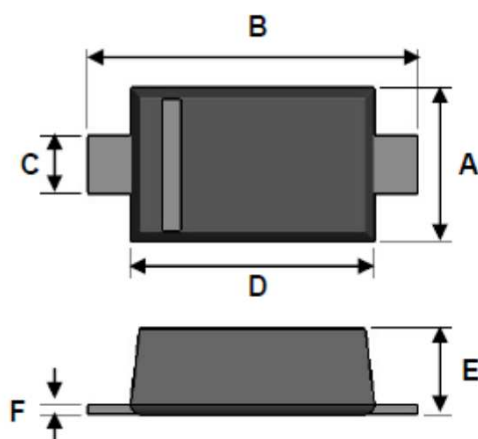
| <b>ORDERING INFORMATION</b> |                                    |                     |                                |                |                |
|-----------------------------|------------------------------------|---------------------|--------------------------------|----------------|----------------|
| <b>PART NO.</b>             | <b>MANUFACTURE<br/>CODE (Note)</b> | <b>PACKING CODE</b> | <b>GREEN COMPOUND<br/>CODE</b> | <b>PACKAGE</b> | <b>PACKING</b> |
| 1SS400CS                    |                                    | RT                  | G                              | SOD-923F       | 8K / 7" Reel   |

Note: Manufacture special control, if empty means no special control requirement.

| <b>EXAMPLE</b>       |                 |                             |                     |                                |                    |
|----------------------|-----------------|-----------------------------|---------------------|--------------------------------|--------------------|
| <b>PREFERRED P/N</b> | <b>PART NO.</b> | <b>MANUFACTURE<br/>CODE</b> | <b>PACKING CODE</b> | <b>GREEN COMPOUND<br/>CODE</b> | <b>DESCRIPTION</b> |
| 1SS400CS RTG         | 1SS400CS        |                             | RT                  | G                              | Green compound     |
| 1SS400CS-M0 RTG      | 1SS400CS        | M0                          | RT                  | G                              | Green compound     |

**Small Signal Product**

**DIMENSIONS**  
**SOD-923F**



| DIM. | Unit (mm) |      | Unit (inch) |       |
|------|-----------|------|-------------|-------|
|      | Min       | Max  | Min         | Max   |
| A    | 0.55      | 0.65 | 0.022       | 0.026 |
| B    | 0.90      | 1.10 | 0.035       | 0.043 |
| C    | 0.15      | 0.27 | 0.006       | 0.011 |
| D    | 0.75      | 0.85 | 0.030       | 0.033 |
| E    | 0.34      | 0.43 | 0.013       | 0.017 |
| F    | -         | 0.15 | -           | 0.006 |

**PIN CONFIGURATION**

