

- ◇ Low Clamping Voltage of Transient Voltage Suppressor
- ◇ ESD Protection, IEC61000-4-2 Level 4
- ◇ **SOD923** Micro SMD package (Fig-1)
Dimensions: 1.0 mm x 0.6 mm (0.039" x 0.024")
- ◇ RoHS compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Moisture Level Sensitivity 1
- ◇ Device marking (Fig-1)

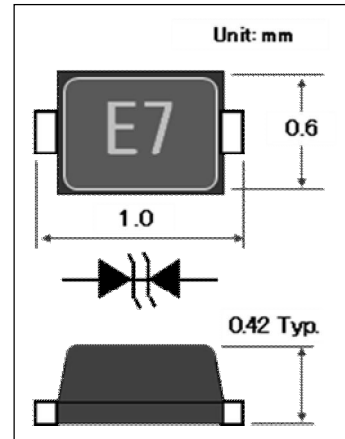


Fig -1 Package SOD923

Absolute Maximum Ratings (Ta = 25 °C)

| Symbol | Parameter | Value | Units |
|-------------------|------------------------------------|-------------|-------|
| P_{DK}^{*1} | Peak Power Dissipation | 23 | W |
| I_{PP}^{*1} | Maximum Reverse Peak Pulse Current | 1.5 | A |
| V_C^{*1} | Maximum Peak Pulse Voltage | 15 | V |
| $V_{ESD-Air}$ | ESD Voltage IEC61000-4-2 Air | ± 15 | kV |
| $V_{ESD-contact}$ | ESD Voltage IEC61000-4-2 Contact | ± 8 | kV |
| T_J | Junction Temperature | 150 | °C |
| T_L | Lead Temperature | 260 | °C |
| T_{STG} | Storage Temperature | -55 to +150 | °C |
| P_D | Power Dissipation | 150 | mW |

*1 $t_p = 10/1000 \mu s$

Electrical Characteristics (Ta = 25 °C)

| Symbol | Parameter | Conditions | Min | Typ | Max | Units |
|----------|---------------------------|----------------------|------|-----|------|---------|
| V_{BR} | Reverse Breakdown Voltage | $I_T = \pm 1mA$ | 5.78 | | 7.82 | V |
| I_R | Reverse Current | $V_R = \pm 3.5V$ | | | 0.5 | μA |
| C_D | Diode Capacitance | $V_R = 0V, f = 1MHz$ | | 30 | | pF |

Ordering Information

| Device | Package | Shipping | Tape wide | Emboss pitch | Tape specification | Notes |
|------------|---------|---------------------------------|-----------|--------------|--------------------|-------|
| ESDB6.8SM9 | SOD923 | Tape & Reel 8000pcs /7" Reel | 8 mm | 2 mm | Conductive | |

Package Dimensions
