

ESD5V0D9H

Features

- Low Clamping Voltage of Transient Voltage Suppressor
- ESD Protection, IEC61000-4-2 Level 4
- SOD923 Micro SMD package
- RoHS compliant
- UL-94 V-0 / Green EMC
- Matte Tin Lead finish (Pb-Free)
- Cathode Band

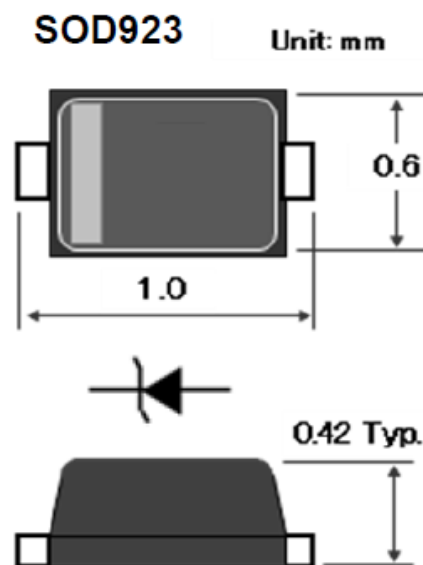
Applications

- power and data line
- Notebook Computers
- SIM Ports
- Set-top box and digital TV

Mechanical Characteristics

- Package: SOD-923
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0

Pin Configuration



Absolute Maximum Ratings

Tamb=25°C unless otherwise specified

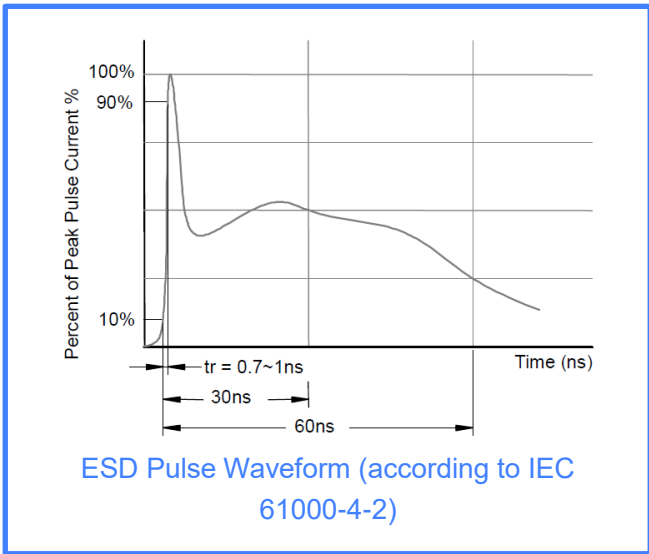
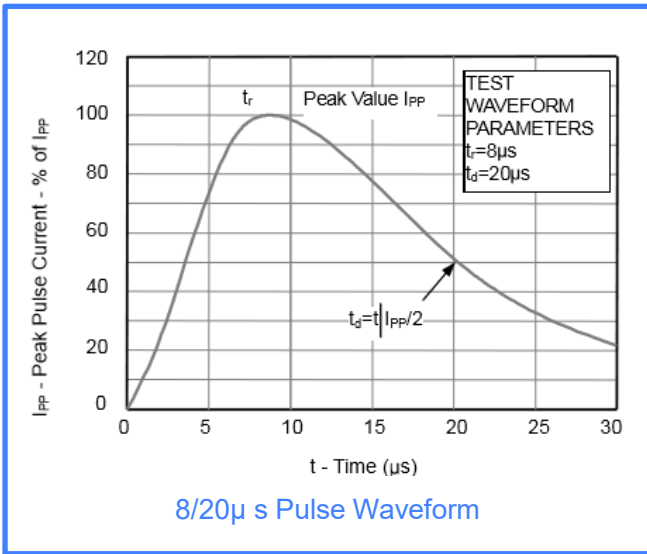
| Parameter | Symbol | Value | Unit |
|------------------------------------|--------------------|-------------|------|
| Peak Pulse Power (8/20μs) | P _{pp} | 92 | W |
| Maximum Reverse Peak Pulse Current | I _{PP} *1 | 7.5 | A |
| ESD per IEC 61000-4-2 (Air) | V _{ESD} | ±30 | KV |
| ESD per IEC 61000-4-2 (Contact) | | ±30 | |
| Junction Temperature | T _J | 150 | °C |
| Lead Temperature | T _L | 260 | °C |
| Storage Temperature Range | T _{STJ} | -55 to +150 | °C |
| Power Dissipation | P _D | 150 | mW |

Electrical Characteristics

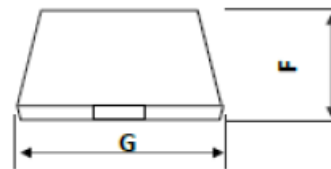
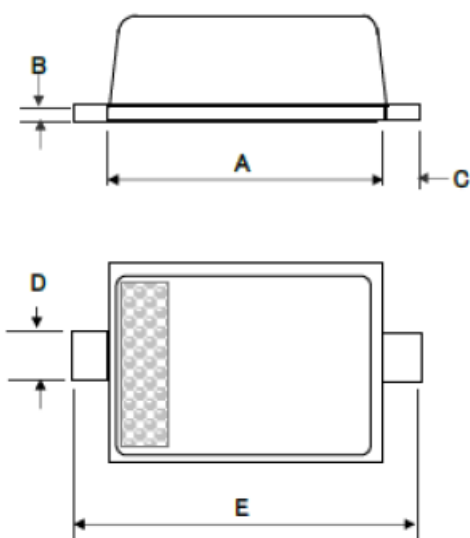
T_A=25°C unless otherwise specified

| Symbol | Parameter | Conditions | Min | Typ | Max | Units |
|------------------|------------------------------|--|-----|-----|------|-------|
| V _{RWM} | Reverse Working Peak Voltage | - | | | 5.0 | V |
| V _{BR} | Reverse Breakdown Voltage | I _T = 1mA | 6.2 | | | V |
| I _R | Reverse Current | V _{RWM} = 5V | | | 1.0 | μA |
| V _F | Forward Voltage | I _F = 10mA | | | 0.9 | V |
| V _C | Clamping Voltage | I _{PP} MAX, t _P = 8/20μs | | | 12.3 | V |
| C _D | Diode Capacitance | V _R = 0V, f = 1MHz | | 40 | | pF |

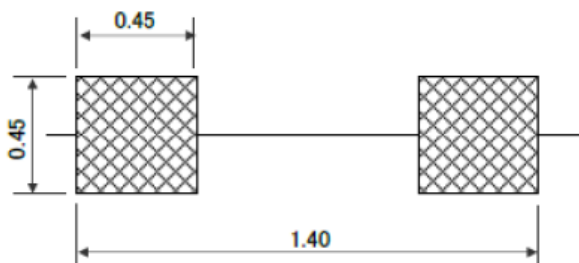
Characteristic Curves



SOD-923 Package Outline & Dimensions



| Unit | A | B | C | D | E | F | G |
|------|------|------|------|------|------|------|------|
| Max | 0.90 | 0.20 | 0.15 | 0.30 | 1.10 | 0.45 | 0.65 |
| Min | 0.70 | 0.05 | 0.05 | 0.15 | 0.90 | 0.39 | 0.55 |



- Note:**
1. Halogen free EMC
 2. Pb free solder
 3. Lead thickness includes solder plating
 4. Lead frame: Cu
 5. Other tolerance: ±0.05
 6. Dimensions are exclusive of burrs, Mold flash and Tie Bar extrusions
 7. Unit: mm

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