

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

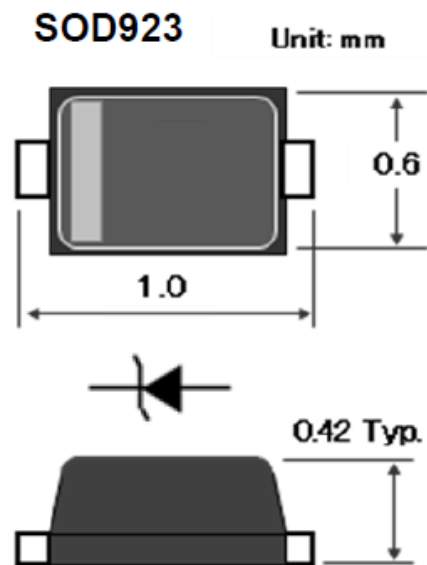
Applications

- 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

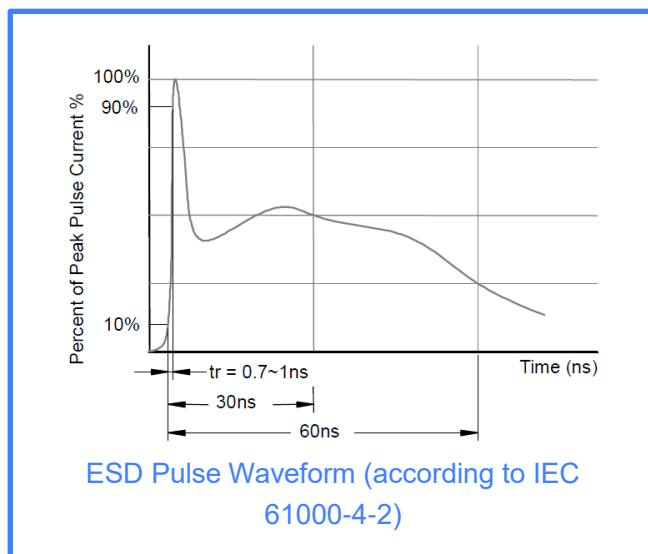
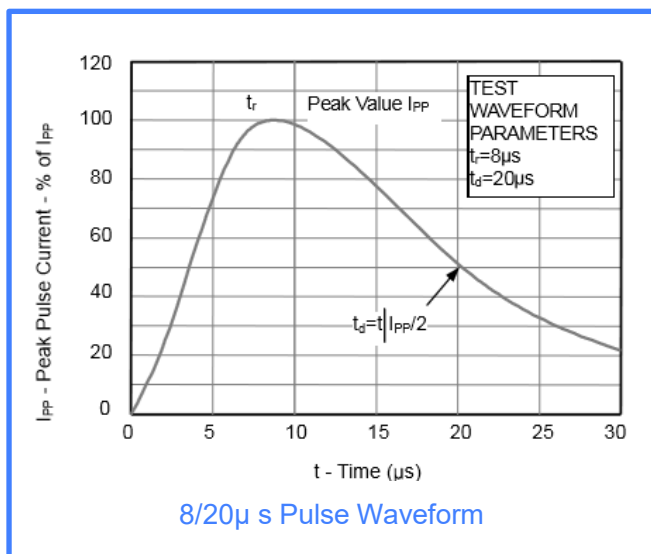
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	P _{pp}	92	W
Maximum Reverse Peak Pulse Current	I _{PP} *1	7.5	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	KV
ESD per IEC 61000-4-2 (Contact)		±30	
Junction Temperature	T _J	150	°C
Lead Temperature	T _L	260	°C
Storage Temperature Range	T _{STJ}	-55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

Electrical Characteristics

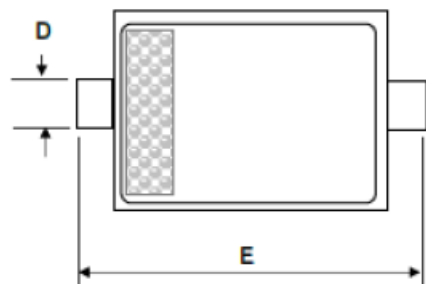
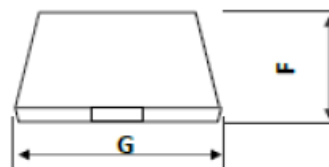
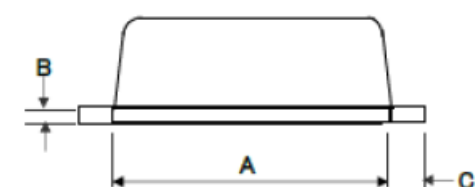
TA=25°C unless otherwise specified

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

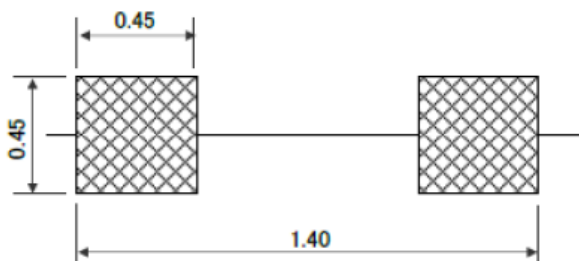
Characteristic Curves



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