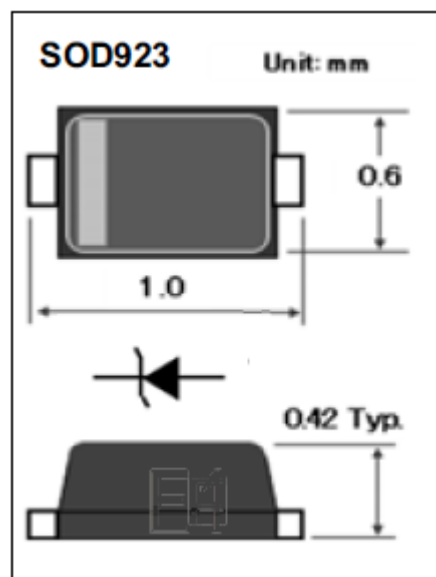


Features

- ◆ Ultra Low Capacitance 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/Device marking

Device Marking Code

ESD5.0LM9	E2
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Absolute Maximum Ratings

Symbol	Parameter	Value
I_{pp*1}	Maximun Reverse Peak Pulse Current	2
$V_{ESD-Air}$	ESD Voltage IEC61000-4-2 Air	± 15
$V_{ESD-contact}$	ESD Voltage IEC61000-4-2 Contact	± 10
T_J	Junction Temperature	125
T_L	Lead Temperature	260
T_{STG}	Storage Temperature	-55 to +150
P_D	Power Dissipation	150

*1 $t_p=8/20 \mu s$

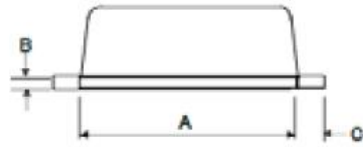
Electrical Characteristics (Ta=25°C)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{RWM}	Reverse Working Peak Voltage	-			5.0	V
V_{BR}	Reverse Breakdown Voltage	$I_T=1mA$	6.0			V
I_R	Reverse Current	$V_{RWM}=5V$			1.0	μA
V_C	Clamping Voltage	$I_{pp}=1A, t_p=8/20\mu s$			14	V
C_D	Diode Capacitance	$V_R=0V, f=1MHz$		0.6	0.9	pF

Ordering Information

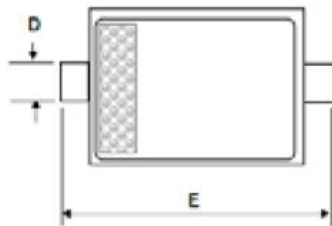
Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Package Code
ESD5.0LM9	SOD923	8,000pcs/7"Reel	8mm	2mm	Conductive	-T

SOD923 Package Outline Dimension

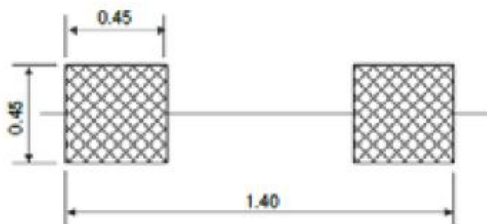


Dimensions

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



SOD923 * Package Outline



Land Pattern Recommendation

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