

- ◇ 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
- ◇ Cathode Band / Device marking (Fig-1)

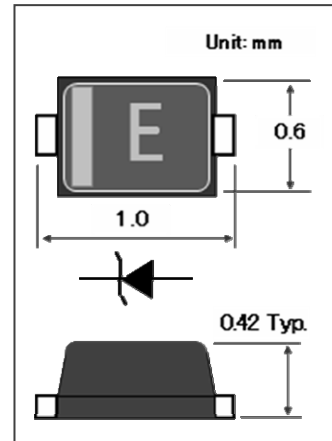


Fig -1 Package SOD923

Absolute Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
P_{DK}	Peak Power Dissipation	92	W
$I_{PP *1}$	Maximum Reverse Peak Pulse Current	7.5	A
$V_{ESD-Air}$	ESD Voltage IEC61000-4-2 Air	±30	kV
$V_{ESD-contact}$	ESD Voltage IEC61000-4-2 Contact	±30	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 $t_p = 8/20 \mu s$

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	$I_T = 1mA$	6.2			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	$I_{PP} MAX, t_p = 8/20 \mu s$			12.3	V
C_D	Diode Capacitance	$V_R = 0V, f = 1MHz$		40		pF

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESD5.0XM9	SOD923	Tape & Reel 8000pcs /7" Reel	8 mm	2 mm	Conductive	

Package Dimensions
