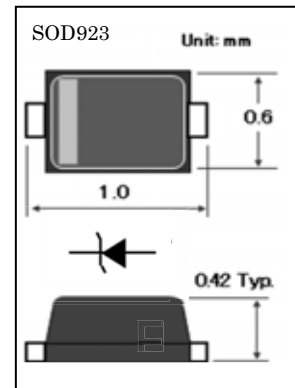


**TVS / DATA SHEET**

- ◇ 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 / Device marking

Device Marking Code	
<b>ESD3.3XM9</b>	<b>E1</b>



**Absolute Maximum Ratings (Ta = 25 °C)**

Symbol	Parameter	Value	Units
$P_{DK}$	Peak Power Dissipation	88	W
$I_{PP *1}$	Maximum Reverse Peak Pulse Current	8.5	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  $t_p = 8/20 \mu s$

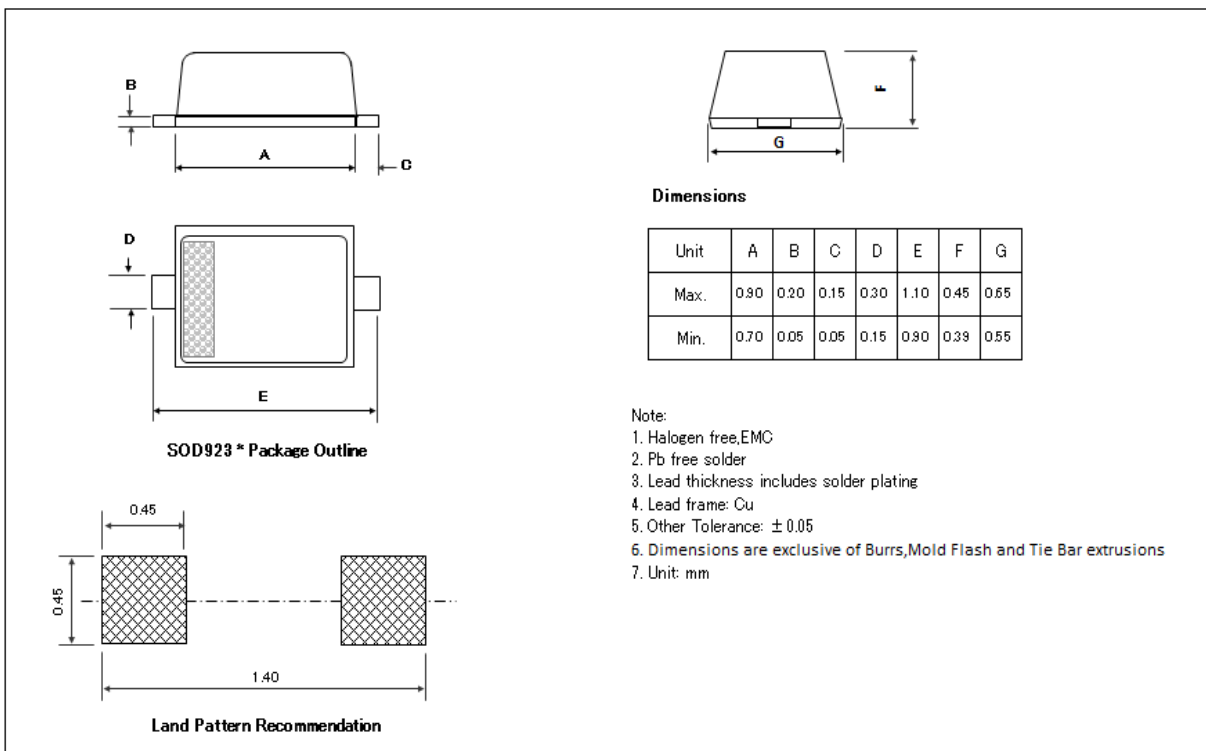
**Electrical Characteristics (Ta = 25 °C)**

Symbol	Parameter	Conditions	Min	Typ	Max	Units
$V_{RWM}$	Reverse Working Peak Voltage	-			3.3	V
$V_{BR}$	Reverse Breakdown Voltage	$I_T = 1mA$	5.0			V
$I_R$	Reverse Current	$V_{RWM} = 3.3V$			2.5	$\mu A$
$V_F$	Forward Voltage	$I_F = 10mA$			0.9	V
$V_C$	Clamping Voltage	$I_{PP} MAX, t_p = 8/20 \mu s$			10.4	V
$C_D$	Diode Capacitance	$V_R = 0V, f = 1MHz$		45		pF

## Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESD3.3XM9	SOD923	Tape & Reel 8000pcs /7" Reel	8 mm	2 mm	Conductive	

## Package Dimensions





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