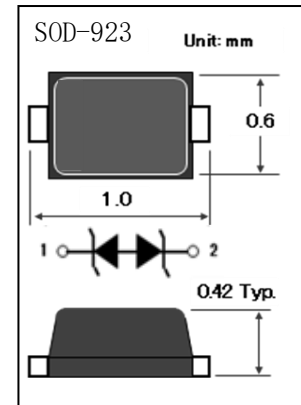


ESDB5.0CM9

- ◇ Bi-Directional Transient Voltage Suppressor
- ◇ Low capacitance and Low Leakage
- ◇ ESD Protection, IEC61000-4-2 Level 4
- ◇ SOD923F Thin SMD
- ◇ RoHS compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)

Device Marking Code	
ESDB5.0CM9	9C or C2



※Mark: refer to Device Marking

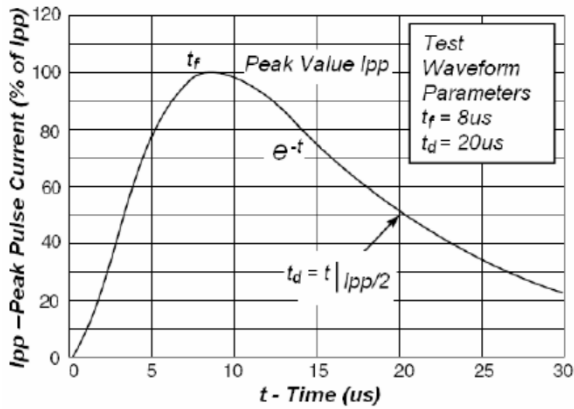
Absolute Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
$I_{PP *1}$	Maximum Reverse Peak Pulse Current	5.0	A
$V_{ESD-Air}$	ESD Voltage IEC61000-4-2 Air	±15	kV
$V_{ESD-contact}$	ESD Voltage IEC61000-4-2 Contact	±8	kV
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 to +150	°C
P_D	Power Dissipation	150	mW

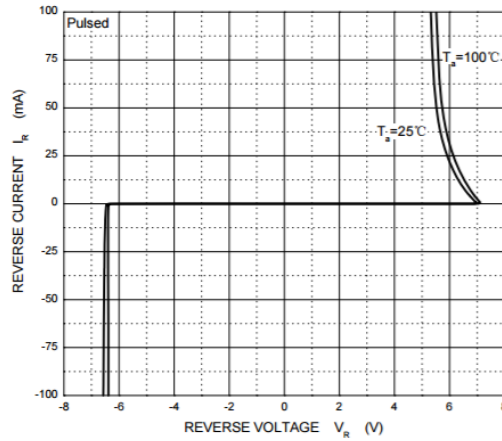
*1 $t_p = 8/20 \mu s$

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	$I_T = 1mA$	5.6		8.2	V
	Pin 1 to 2					
I_R	Reverse Current	$V_{RWM} = \pm 5V$			1.0	μA
C_D	Diode Capacitance	$V_R = 0V, f = 1MHz$		13		pF



Pulse Waveform

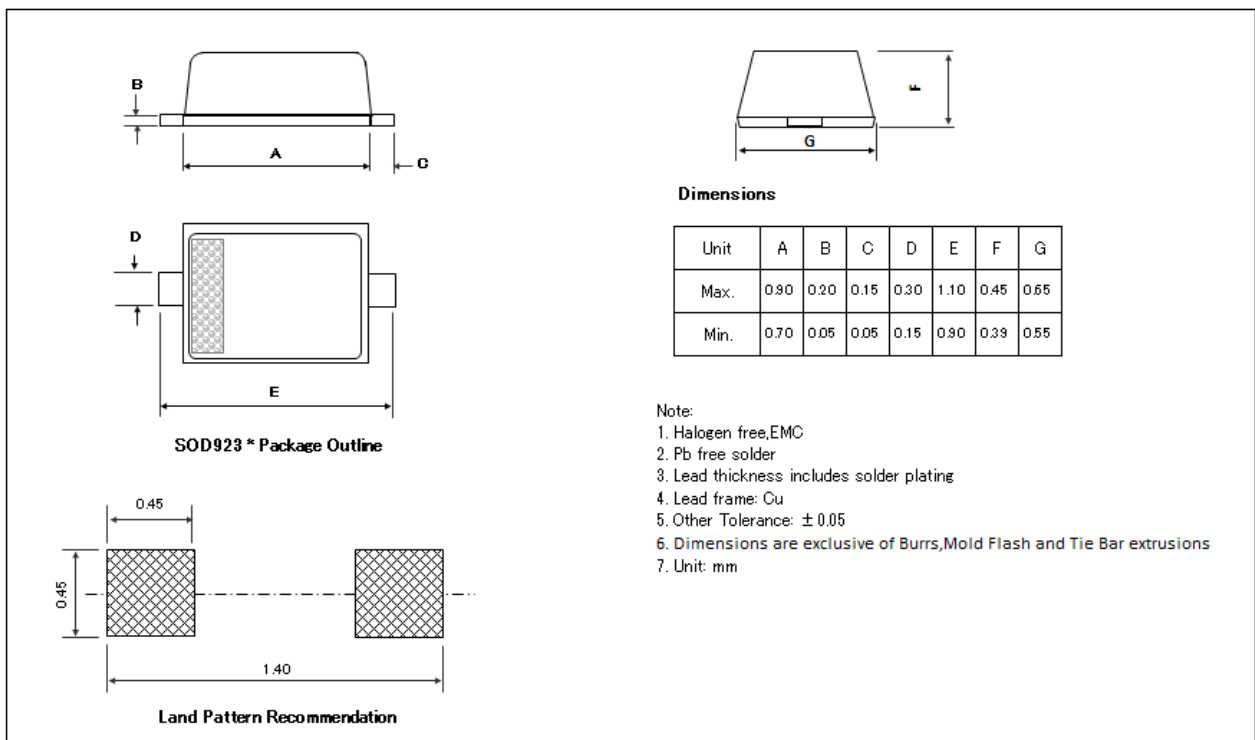


Reverse Characteristics

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESDB5.0CM9	SOD923	Tape & Reel 8000pcs /7" Reel	8 mm	2 mm	Conductive	

Package Dimensions



SOD923 * Package Outline

Land Pattern Recommendation

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