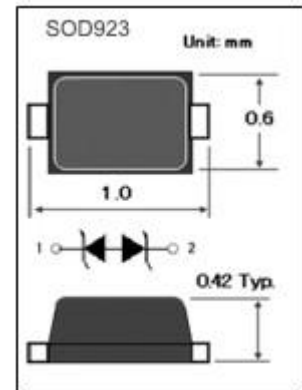


ESDB3.3CM9

- ◇ 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)
- ◇ Device marking

Device Marking Code	
ESDB3.3CM9	B5



Absolute Maximum Ratings (Ta = 25 °C)

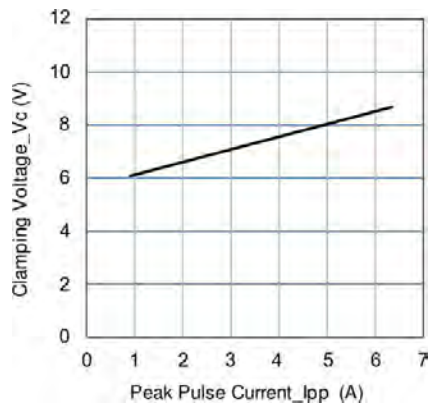
Symbol	Parameter	Value	Units
P_{PK}	Peak Power Dissipation	60	W
I_{PP}^{*1}	Maximum Reverse Peak Pulse Current	8	A
$V_{ESD-Air}$	ESD Voltage IEC61000-4-2 Air	±30	kV
$V_{ESD-contact}$	ESD Voltage IEC61000-4-2 Contact	±30	kV
T_J	Junction Temperature	150	°C
T_L	Lead Temperature	260	°C
T_{STG}	Storage Temperature	-55 to +150	°C
P_D	Power Dissipation	200	mW

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

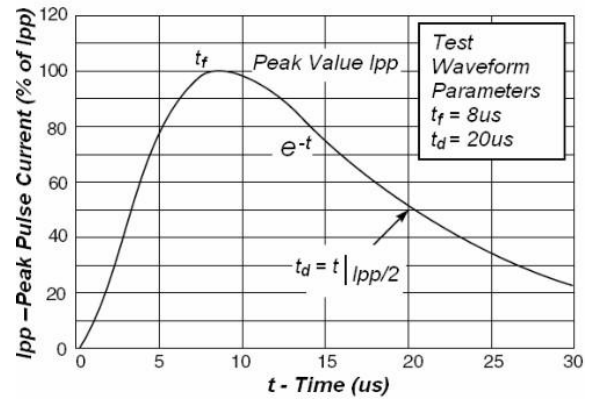
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{RWM}	Reverse Working Peak Voltage	-			3.3	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1mA$	4.5	5.2	6.5	V
I_R	Reverse Current	$V_{RWM} = 3.3V$			200	nA
V_C	Clamping Voltage	$I_{PP} = 1A, t_P = 8/20\mu s$			7	V
		$I_{PP} MAX, t_P = 8/20\mu s$			9	V
C_D	Diode Capacitance	$V_R = 0V, f = 1MHz$		15		pF

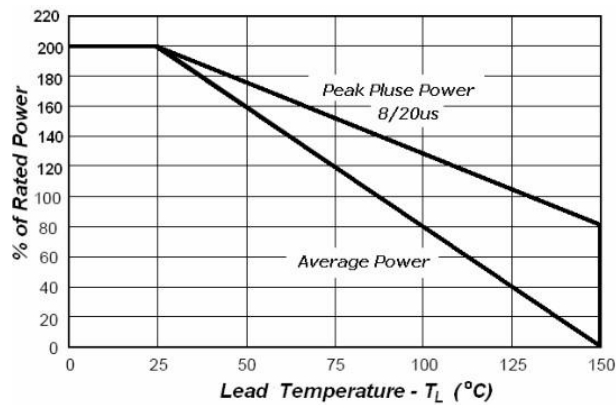
Typical Characteristics



Clamping Voltage vs. Peak Pulse Current



Pulse Waveform



Power Derating Curve

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESDB3.3CM9	SOD923	Tape & Reel 8000pcs /7"Reel	8 mm	2 mm	Conductive	

Package Dimensions

