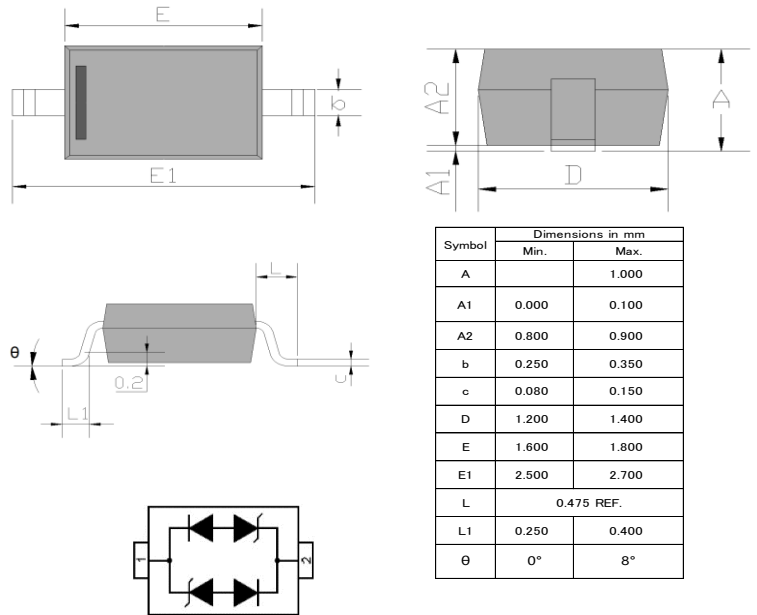


**SOD-323****Features**

For Sensitive ESD Protection
ESD Protection, IEC61000-4-2 Level 4
RoHS compliant / Green EMC
Matte Tin (Sn) Lead finish
Cathode Band / Device marking

**Maximum Ratings (Ta = 25 °C)**

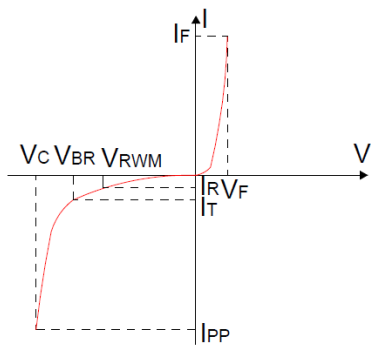
Symbol	Parameter	Value	Units
$V_{ESD-Air}$	ESD Voltage IEC61000-4-2 Air	± 30	kV
$V_{ESD-contact}$	ESD Voltage IEC61000-4-2 Contact	± 30	kV
T_J	Operating Temperature Range	-55 to +125	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C
Ppk	Peak Pulse Power (8/20 μ s)	350	W
I_{PP}	Peak Pulse Current (8/20 μ s)	20	A

Electrical Characteristics (Ta = 25 °C)

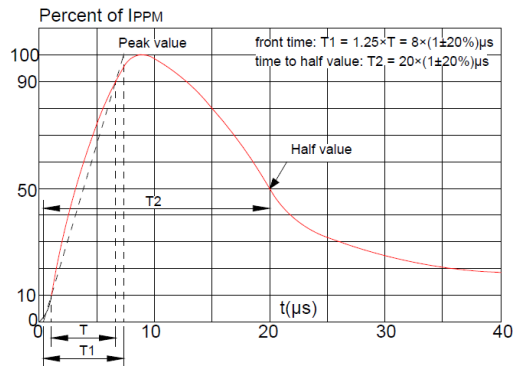
Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{RWM}	Reverse Working Voltage				8	V
V_{BR}	Breakdown Voltage	$I_T = 1mA$	8.5			V
I_R	Reverse Leakage Current	$V_{RWM} = 8V$			1	μA
V_C	Clamping Voltage	$I_{PP}=1A, t_P=8/20 \mu s$		11	15	V
V_C	Clamping Voltage	$I_{PP}=8A, t_P=8/20 \mu s$			18.5	V
V_C	Clamping Voltage	$I_{PP}=20A, t_P=8/20 \mu s$			20	V
C_J	Junction Capacitance	$V_R=0V, f=1MHz$		0.8		pF

Typical Performance Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise Specified)

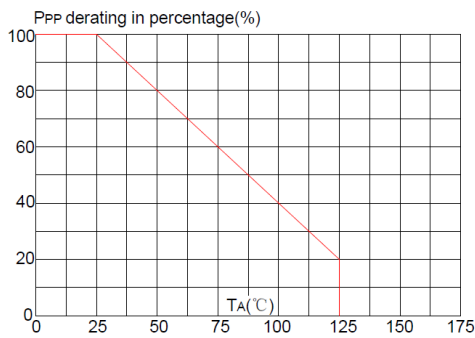
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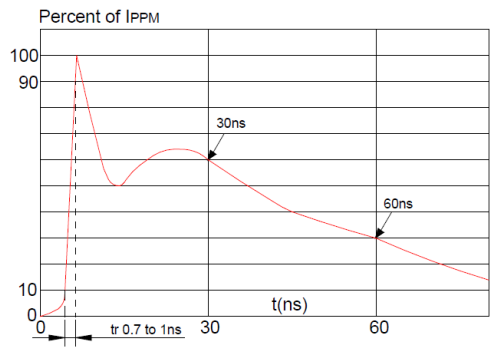
V- I curve characteristics



Pulse waveform (8/20 μs)



Pulse derating curve



ESD clamping (30kV contact)