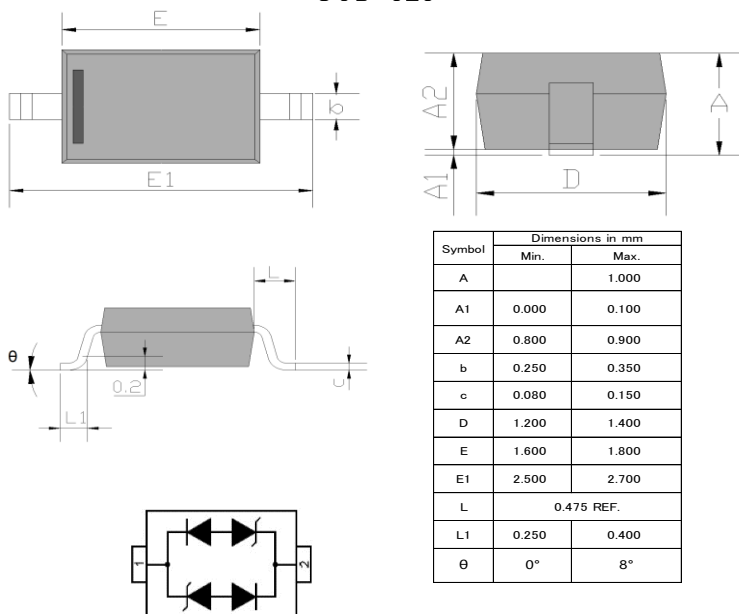




SOD-323

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 ($T_a = 25^\circ\text{C}$)

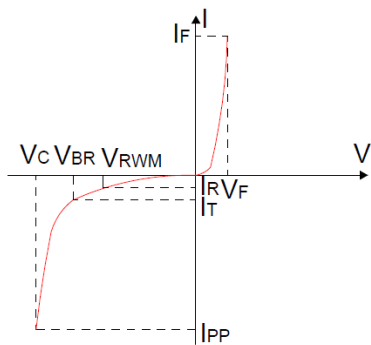
Symbol	Parameter	Value	Units
$V_{\text{ESD-Air}}$	ESD Voltage IEC61000-4-2 Air	± 30	kV
$V_{\text{ESD-contact}}$	ESD Voltage IEC61000-4-2 Contact	± 30	kV
T_J	Operating Temperature Range	-55 to +125	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
Ppk	Peak Pulse Power (8/20 μs)	300	W
I_{PP}	Peak Pulse Current (8/20 μs)	10	A

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

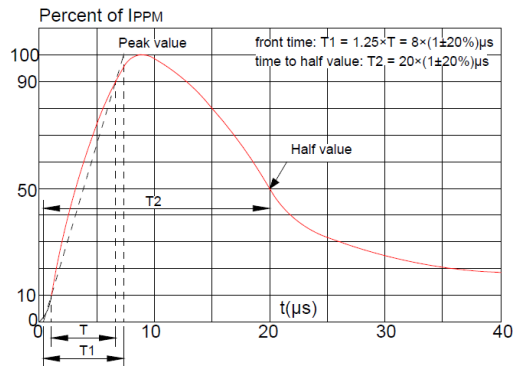
Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{RWM}	Reverse Working Voltage				12	V
V_{BR}	Breakdown Voltage	$I_T = 1\text{mA}$	13.3			V
I_{R}	Reverse Leakage Current	$V_{\text{RWM}} = 12\text{V}$			1	μA
V_{C}	Clamping Voltage	$I_{\text{PP}}=1\text{A}$, $t_{\text{P}}=8/20\mu\text{s}$			19	V
V_{C}	Clamping Voltage	$I_{\text{PP}}=6\text{A}$, $t_{\text{P}}=8/20\mu\text{s}$			25	V
V_{C}	Clamping Voltage	$I_{\text{PP}}=10\text{A}$, $t_{\text{P}}=8/20\mu\text{s}$			28	V
C_{J}	Junction Capacitance	$V_{\text{R}}=0\text{V}$, $f=1\text{MHz}$		0.8		pF

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

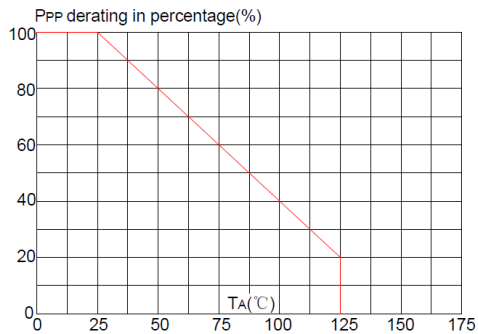
GBLC12C



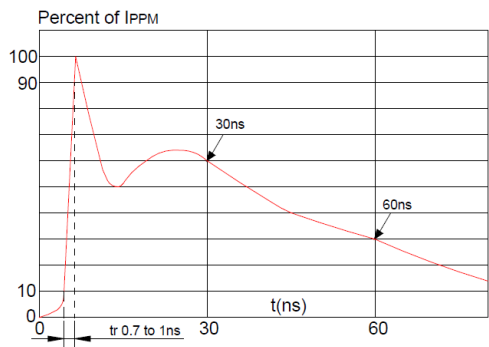
V- I curve characteristics



Pulse waveform (8/20μs)



Pulse derating curve



ESD clamping (30kV contact)