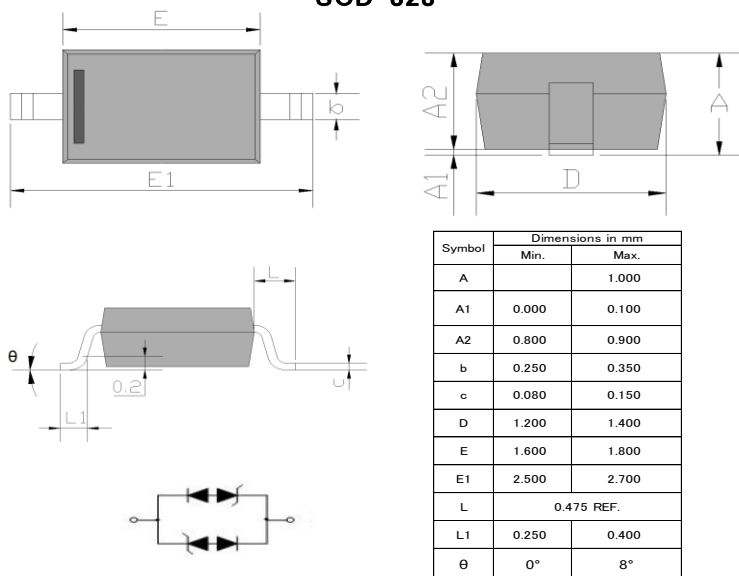




Features

Bi-Directional Transient Voltage Suppressor
Low capacitance and Low Leakage
ESD Protection, IEC61000-4-2 Level 4
SOD323-GW Thin SMD
RoHS compliant
UL-94 V-0 / Green EMC
Matte Tin Lead finish (Pb-Free)

SOD-323



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
I_{PP}^{*1}	Maximum Reverse Peak Pulse Current	21	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_{STG}	Storage Temperature	-55 to +150	°C
P_{PP}^{*2}	Peak Pulse Power	350	W

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

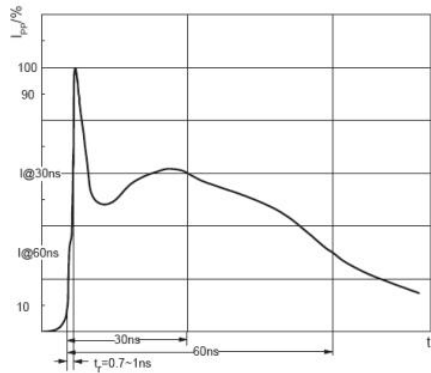
*2 Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC61000-4-5.

Electrical Characteristics (Ta = 25 °C)

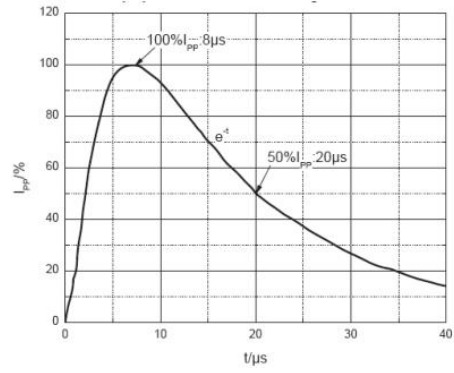
Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{RWM}	Reverse Working Peak Voltage	-			5.0	V
V_{BR}	Reverse Breakdown Voltage Pin 1 to 2; Pin 2 to 1	$I_T = 1mA$	6		8	V
I_R	Reverse Current	$V_{RWM} = \pm 5V$			1.0	μA
V_C	Clamping Voltage	$I_{PP} = 1A$			9.8	V
V_C	Clamping Voltage	$I_{PP} = 21A$			22	V
C_J	Diode Capacitance	$V_R = 0V, f = 1MHz$			1.5	pF

Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

GBLC05C



ESD pulse waveform according to IEC61000-4-2



8/20 μs pulse waveform according to IEC 61000-4-5