

SOD-323 Plastic-Encapsulate ESD Protection Diodes

Features

- Low leakage current
- Low clamping voltage
- IEC 61000-4-2 (ESD Air): ±30kV
- IEC 61000-4-2 (ESD Contact): ±30kV
- IEC 61000-4-5 (Lightning 8/20μs): 160A

Applications

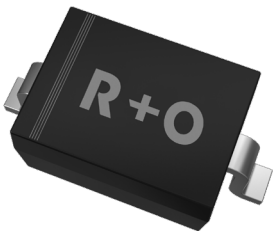
- USB 2.0 USB 3.0 interface
- 10/100/1000 Ethernet
- PDA/DVI
- Wireless system devices
- Portable Instrumentation,Digital Cameras
- Peripherals, Audio Players, Industrial Equipment

Function Diagram



Reverse Working Voltage
3.3V Max.
Low capacitance
0.8pF(Typ.)

SOD-323

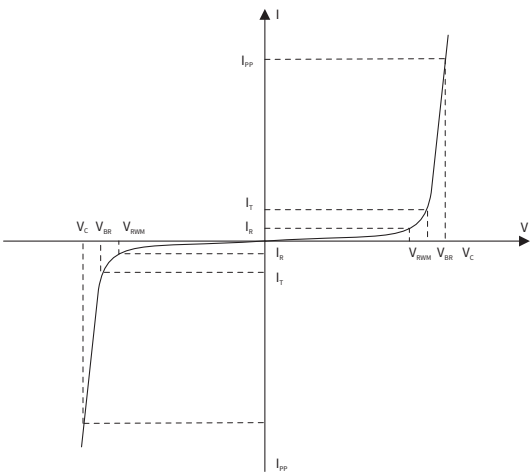


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
VESD	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	±30	KV
		ESD per IEC 61000-4-2(Contact)	±30	KV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	240	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	20	A
T _J	Operating JunctionTemperature Range	—	-55 to +125	°C
T _{STG}	Operating JunctionTemperature Range	—	-55 to +125	°C

Electrical Parameter

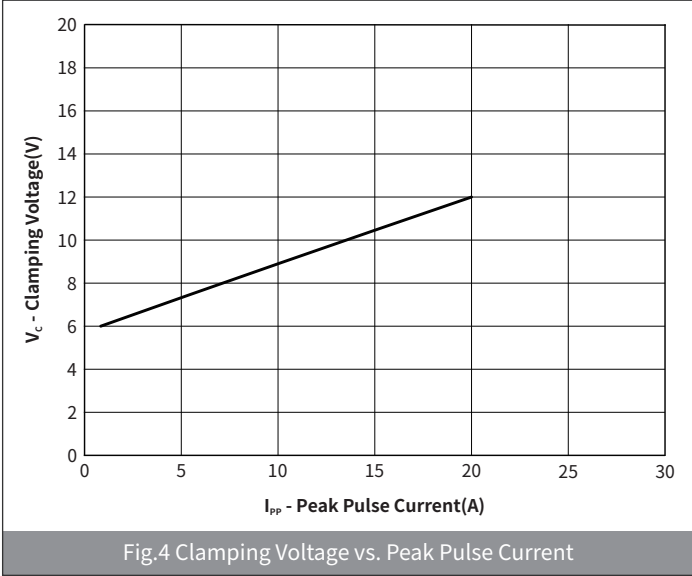
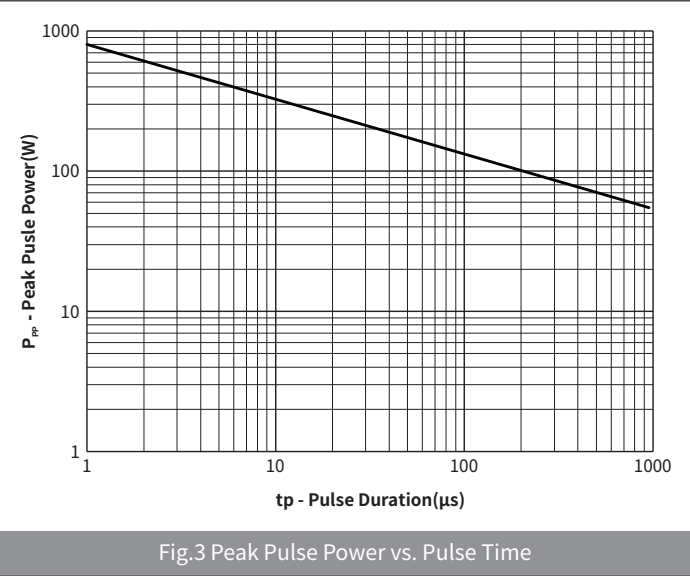
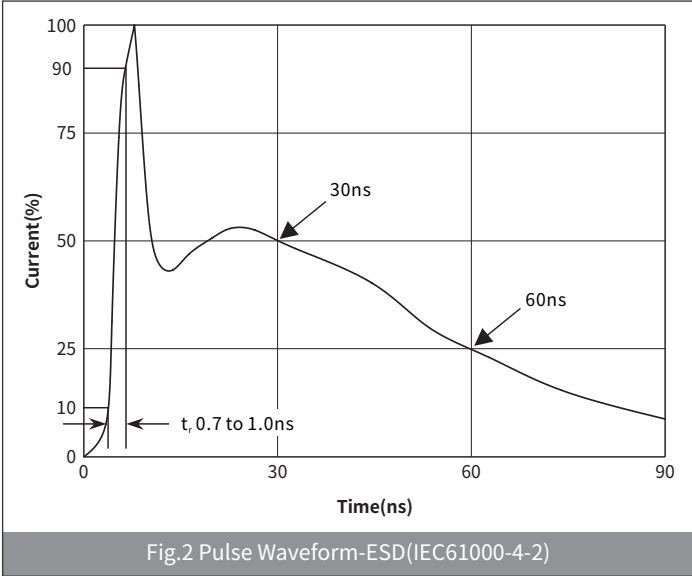
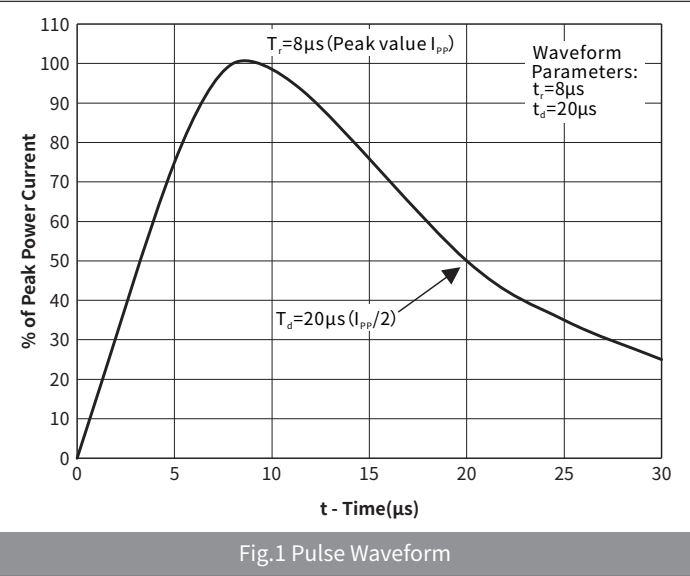
SYMBOL	PARAMETER
V _C	Clamping Voltage @ I _{PP}
V _{BR}	Breakdown Voltage @ I _T
I _{PP}	Peak Pulse Current
I _T	Test Current
I _R	Reverse Leakage Current @ VRWM
V _{RWM}	Peak Reverse Working Voltage
P _{PP}	Peak Pulse Power Dissipation
C _J	Junction Capacitance @ V _R =0V,f=1MHz
I _F	Forward Current
V _F	Forward Voltage @I _F



● Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	V_{RWM}	$T_a=25^{\circ}C$	—	—	3.3	V
Breakdown Voltage	V_{BR}	$I_T=1mA, T_a=25^{\circ}C$	4.0	—	—	V
Reverse Leakage Current	I_R	$V_{RWM}=3.3V, T_a=25^{\circ}C$	—	—	0.1	μA
Clamping Voltage	V_C	$I_{PP}=20A, t_p=8/20\mu s$	—	12	—	V
Junction Capacitance	C_J	$V_{RWM}=0V, f=1MHz$	—	0.8	—	pF

● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



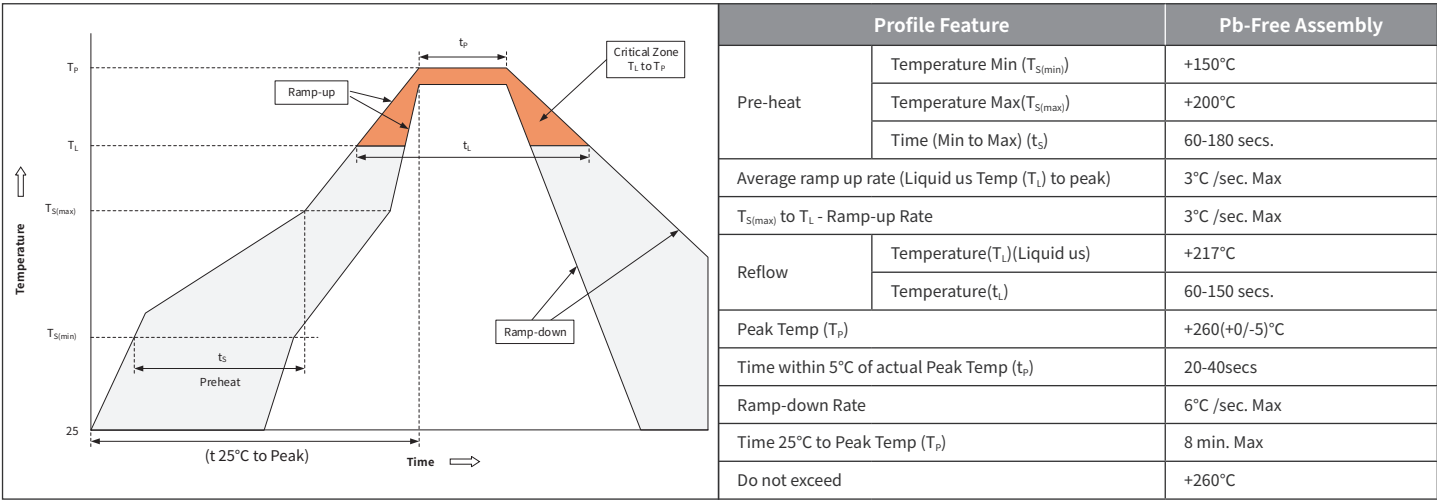
PESD3V3L1BA

Bi-directional 3.3V Low Capacitance ESD

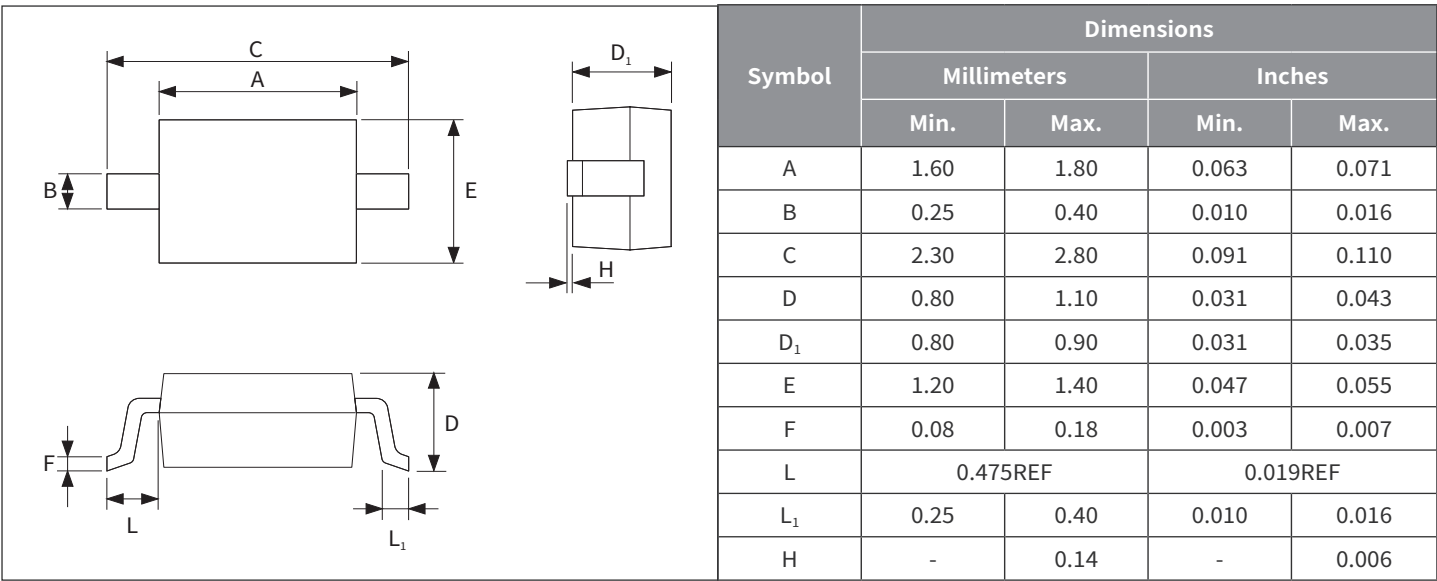
Ordering Information

PREFERED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
PESD3V3L1BA	SOD-323	1.8×1.4×1.1	7" REEL	3,000

Recommended Soldering Conditions



Package Outline Dimensions (SOD-323)



Suggested Pad Layout

