

SOD-323 Plastic-Encapsulate ESD Protection Diodes

Features

- Low leakage current
- Low clamping voltage
- IEC 61000-4-2 (ESD Air): ±25kV
- IEC 61000-4-2 (ESD Contact): ±25kV
- IEC 61000-4-5 (Lightning 8/20μs): 20A

Applications

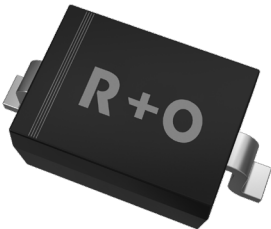
- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation, Digital Cameras
- Peripherals, Audio Players, Industrial Equipment

Function Diagram



Reverse Working Voltage
15V Max.
Low capacitance
25pF(Typ.)

SOD-323

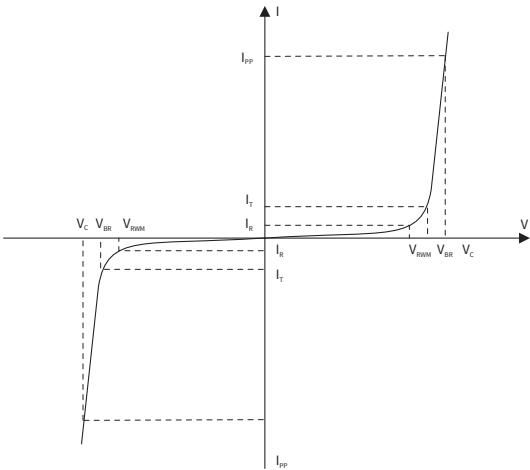


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
VESD	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	±25	KV
		ESD per IEC 61000-4-2(Contact)	±25	KV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	800	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	20	A
T _J	Operating JunctionTemperature Range	—	-55 to +150	°C
T _{STG}	Operating JunctionTemperature Range	—	-55 to +150	°C

Electrical Parameter

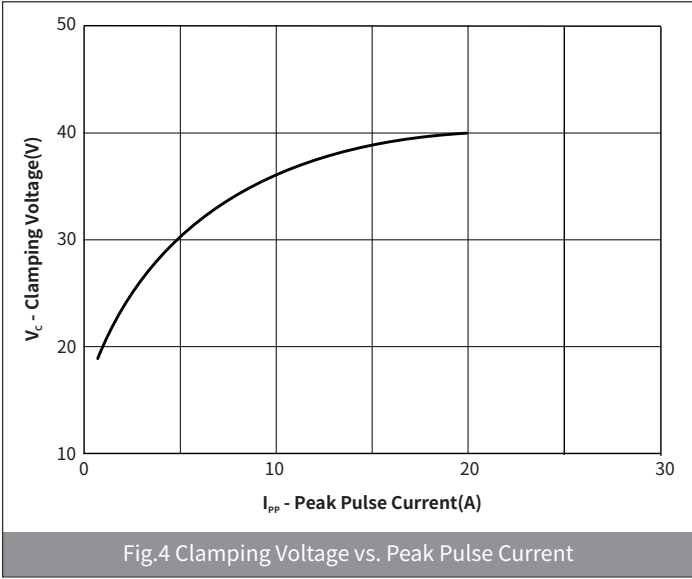
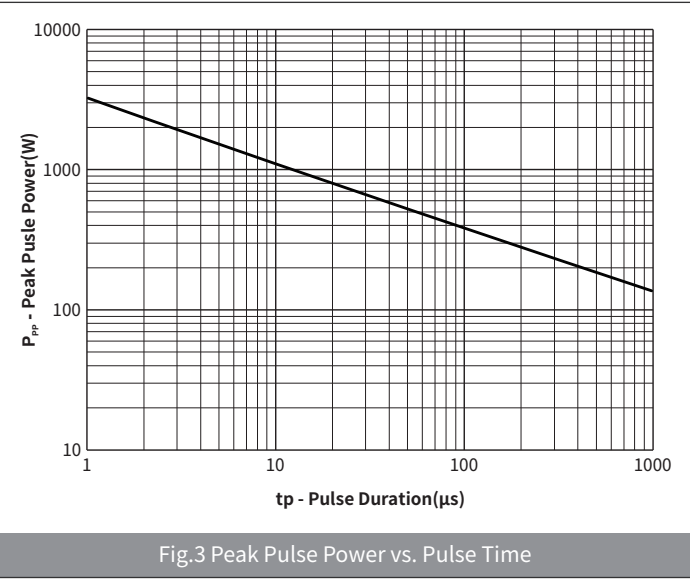
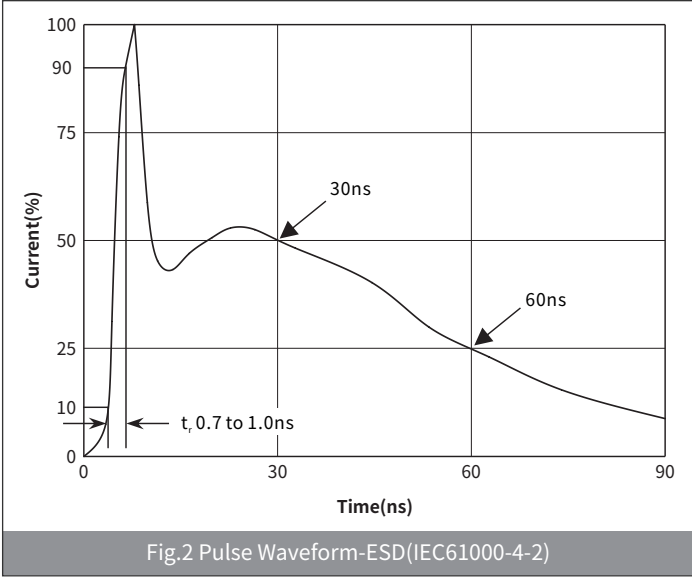
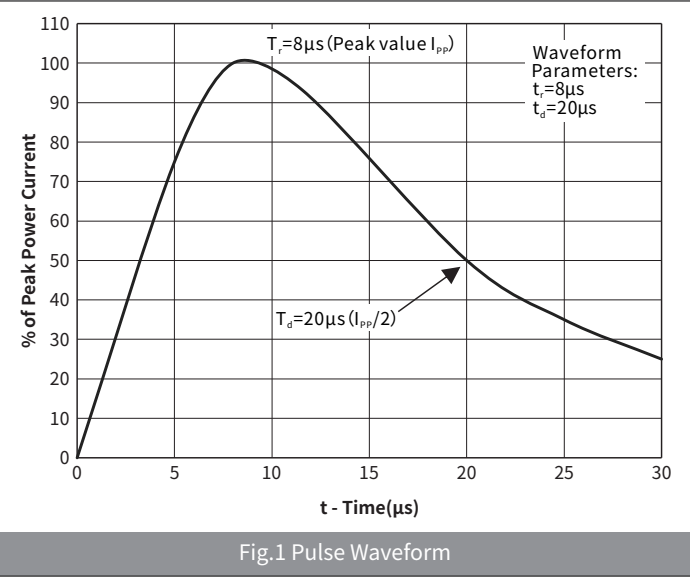
SYMBOL	PARAMETER
V _C	Clamping Voltage @ I _{PP}
V _{BR}	Breakdown Voltage @ I _T
I _{PP}	Peak Pulse Current
I _T	Test Current
I _R	Reverse Leakage Current @ VRWM
V _{RWM}	Peak Reverse Working Voltage
P _{PP}	Peak Pulse Power Dissipation
C _J	Junction Capacitance @ V _R =0V,f=1MHz
I _F	Forward Current
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}	$T_a=25^{\circ}\text{C}$	—	—	15	V
Breakdown Voltage	V_{BR}	$I_T=1\text{mA}, T_a=25^{\circ}\text{C}$	16	17	19	V
Reverse Leakage Current	I_R	$V_{RWM}=15\text{V}, T_a=25^{\circ}\text{C}$	—	—	1.0	μA
Clamping Voltage ($V_{RWM}=24\text{V}$, cathode2)	V_C	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$	—	—	21	V
		$I_{PP}=20\text{A}, t_p=8/20\mu\text{s}$	—	—	40	
Junction Capacitance	C_J	$V_{RWM}=0\text{V}, f=1\text{MHz}$	—	25	50	pF

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



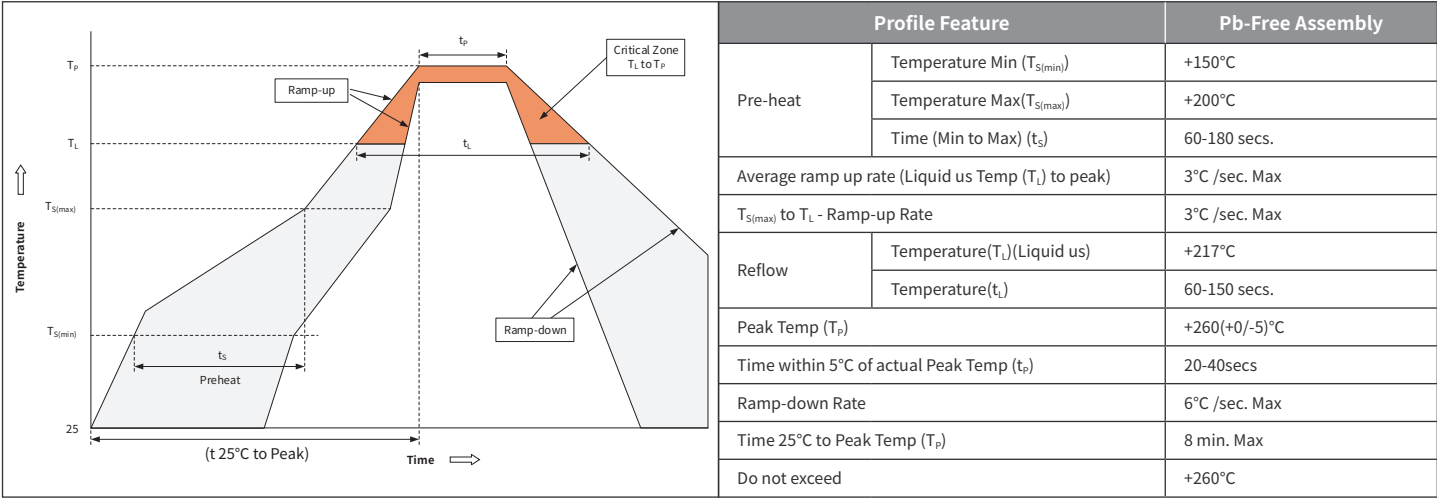
H15VLD3B

Bi-directional 15V Low Capacitance ESD

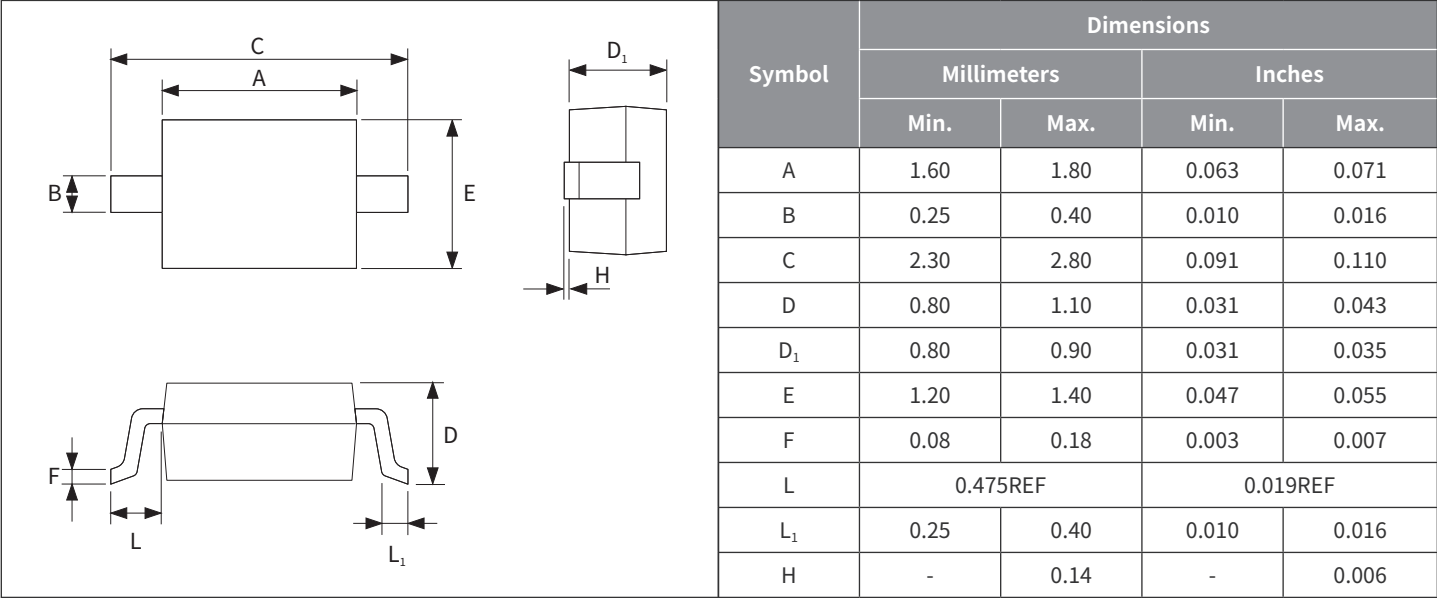
Ordering Information

PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SOD-323	R1	0.0048	3000	45000	180000	7"

Recommended Soldering Conditions



Package Outline Dimensions (SOD-323)



Suggested Pad Layout

