

## SOD-323 Plastic-Encapsulate ESD Protection Diodes

### Features

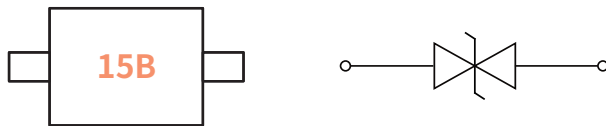
- Low leakage current
- SOD-323 surface mount package
- IEC 61000-4-2 (ESD Air):  $\pm 30\text{kV}$
- IEC 61000-4-2 (ESD Contact):  $\pm 30\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 $\mu\text{s}$ ): 8A

### Applications

- LED Lighting Modules
- RS232/RS485
- CAN and LIN Bus
- Portable Instrumentation
- General Purpose I/O
- Automotive application

### Reference News

**Reverse Working Voltage**  
15V Max.  
**Normal capacitance**  
30pF(Max.)

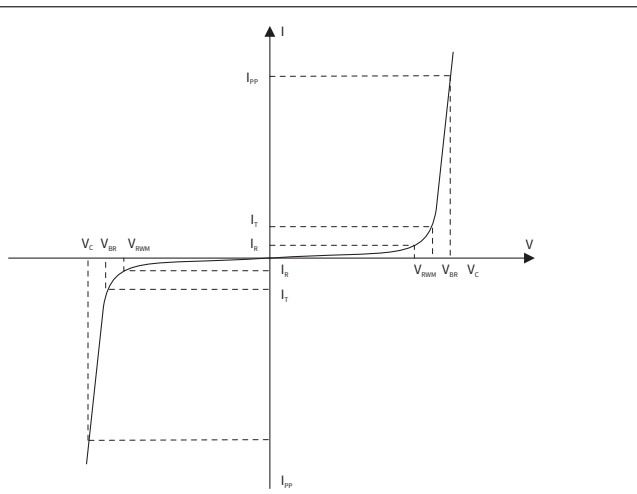


### Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{ESD}$	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2( Air )	$\pm 30$	KV
		ESD per IEC 61000-4-2( Contact)	$\pm 30$	KV
$P_{PP}$	Peak Pulse Power	$t_p = 8/20 \mu\text{s}$	304	W
$I_{PP}$	Rated Peak Pulse Current	$t_p = 8/20 \mu\text{s}$	8.0	A
$T_J$	Operating JunctionTemperature Range	—	-55 to +125	°C
$T_{STG}$	Operating JunctionTemperature Range	—	-55 to +150	°C

### Electrical Parameter

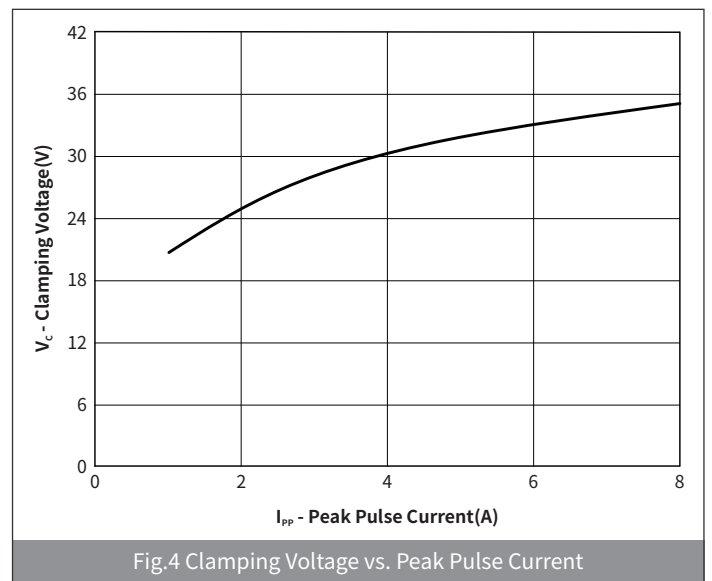
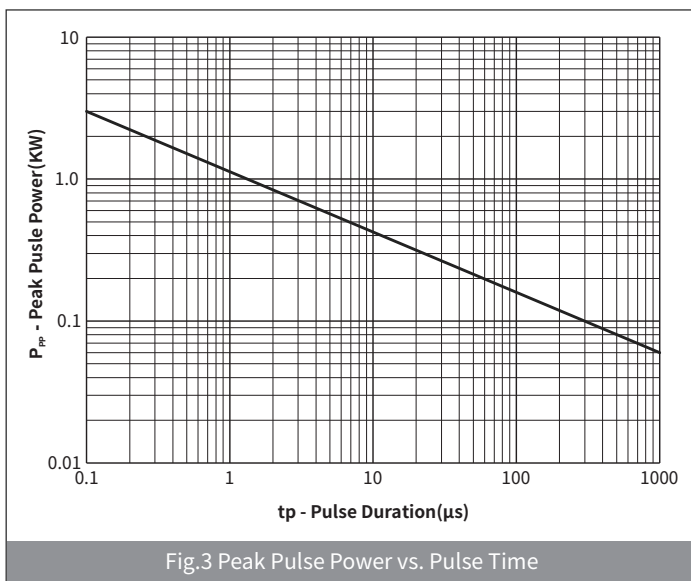
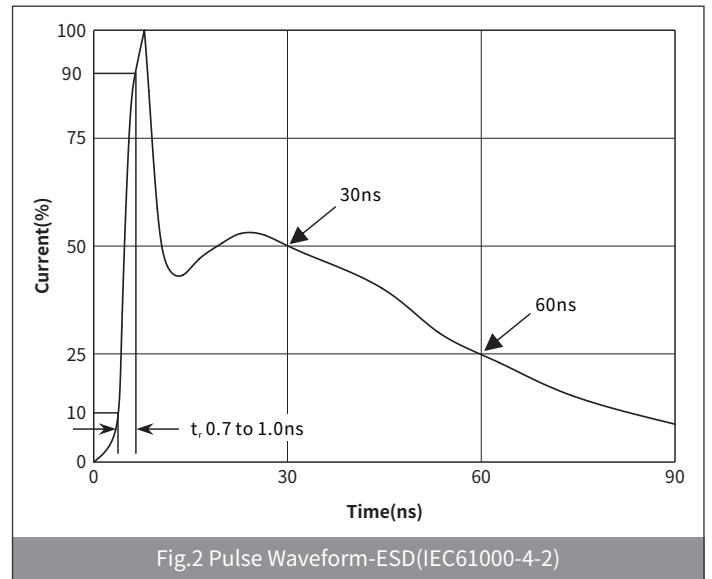
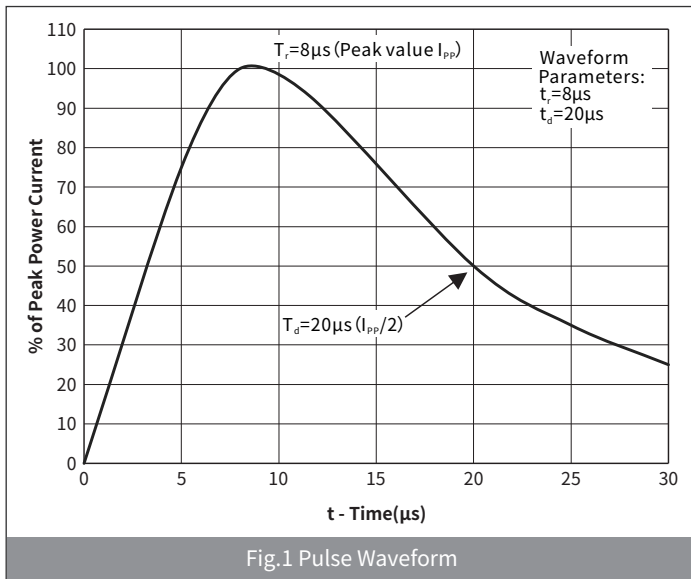
SYMBOL	PARAMETER
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_{PP}$	Peak Pulse Current
$I_T$	Test Current
$I_R$	Reverse Leakage Current @ VRWM
$V_{RWM}$	Peak Reverse Working Voltage
$P_{PP}$	Peak Pulse Power Dissipation
$C_J$	Junction Capacitance @ $V_R=0V, f=1\text{MHz}$
$I_F$	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	$V_{BR}$	$I_R=1.0\text{mA}, T_a=25^\circ\text{C}$	16	—	20	V
Reverse Leakage Current	$I_R$	$V_R=15\text{V}, T_a=25^\circ\text{C}$	—	—	0.2	$\mu\text{A}$
Clamping Voltage	$V_C$	$I_{PP}=1.0\text{A}, t_p=8/20\mu\text{s}$	—	—	24	V
		$I_{PP}=8.0\text{A}, t_p=8/20\mu\text{s}$	—	—	38	
Junction Capacitance	$C_J$	$V_R=0\text{V}, f=1\text{MHz}$	—	—	30	pF

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



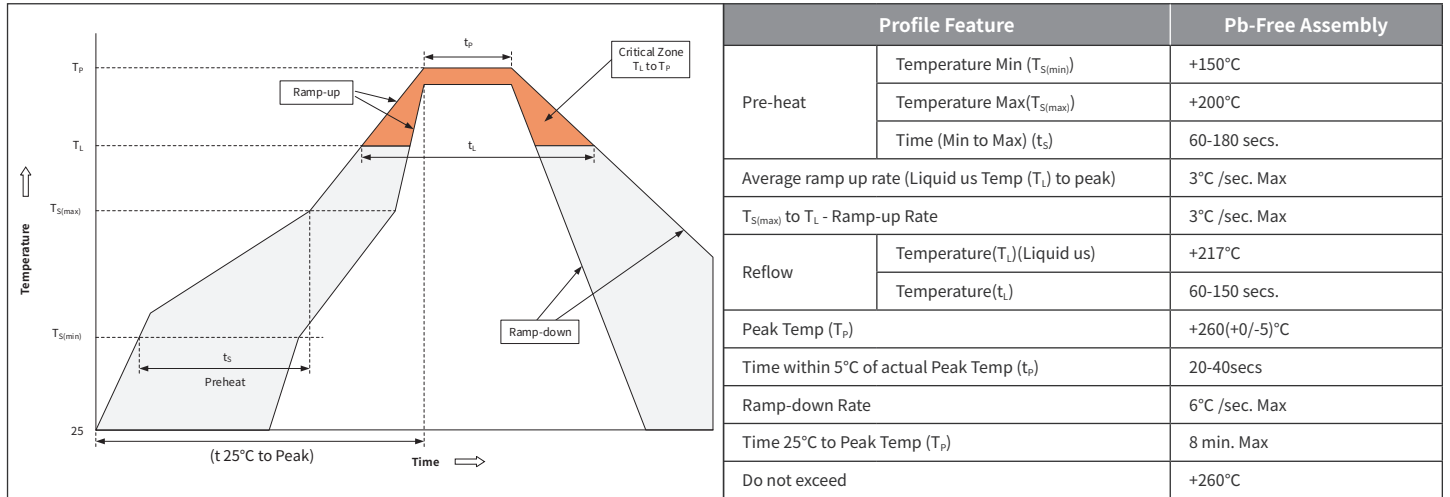
# H15VND3B

Bi-directional 15V Normal Capacitance ESD

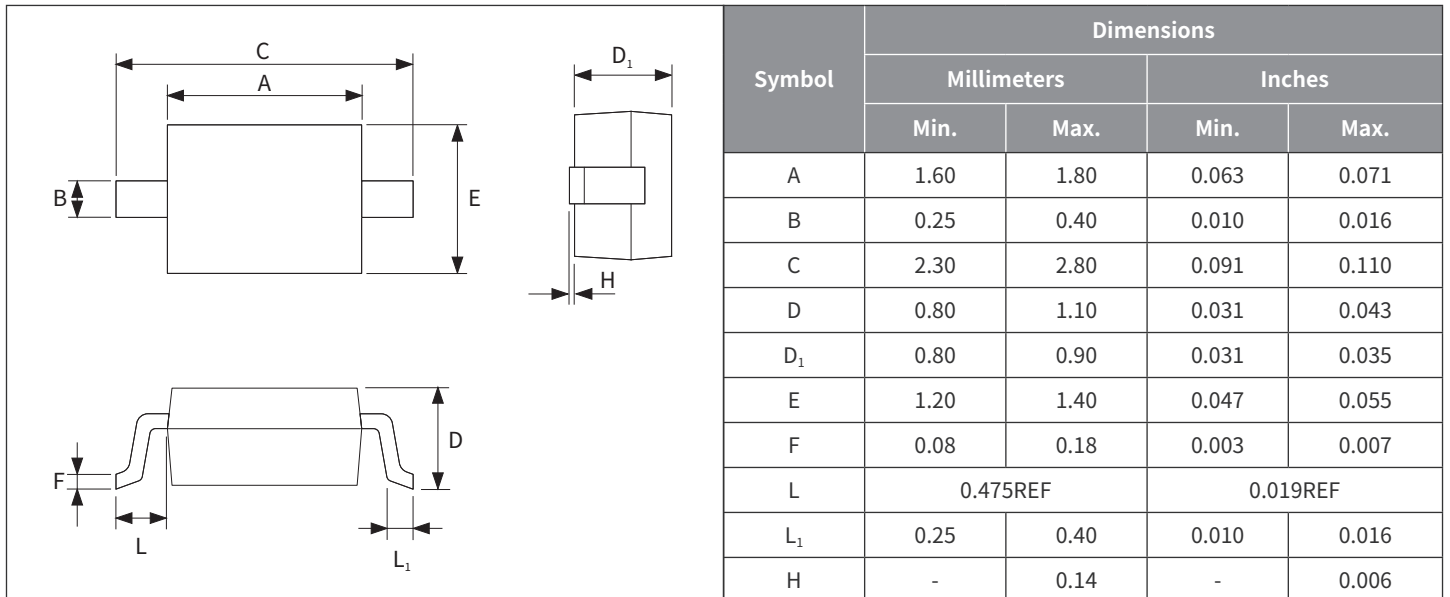
## Ordering Information

PREFERED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H15VND3B	SOD-323	2.55×1.30×0.95	7" REEL	3000

## Recommended Soldering Conditions



## Package Outline Dimensions (SOD-323)



## Suggested Pad Layout

