

SOD-323 Plastic-Encapsulate ESD Protection Diodes

Features

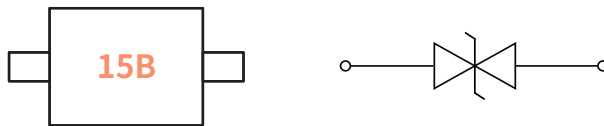
- Low leakage current
- SOD-323 surface mount package
- IEC 61000-4-2 (ESD Air): $\pm 30\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 30\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 8A

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.)

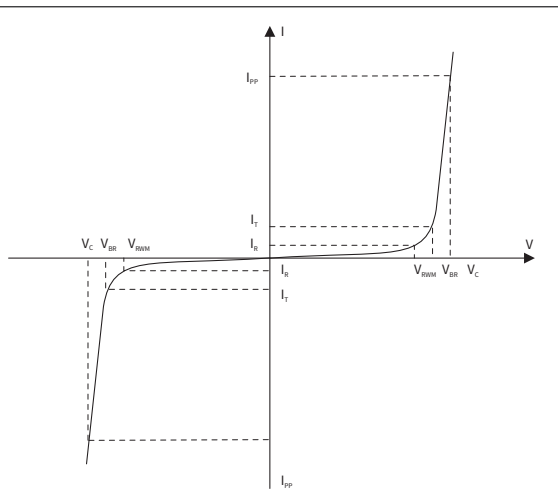


Maximum Ratings (Ta=25°C Unless otherwise specified)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-------------------------------------|---------------------------------|-------------|------|
| V _{ESD} | Electrostatic Discharge Voltage | ESD per IEC 61000-4-2(Air) | ± 30 | KV |
| | | ESD per IEC 61000-4-2(Contact) | ± 30 | KV |
| P _{PP} | Peak Pulse Power | tp = 8/20 μs | 304 | W |
| I _{PP} | Rated Peak Pulse Current | tp = 8/20 μs | 8.0 | A |
| T _J | Operating JunctionTemperature Range | — | -55 to +125 | °C |
| T _{STG} | Operating JunctionTemperature Range | — | -55 to +150 | °C |

Electrical Parameter

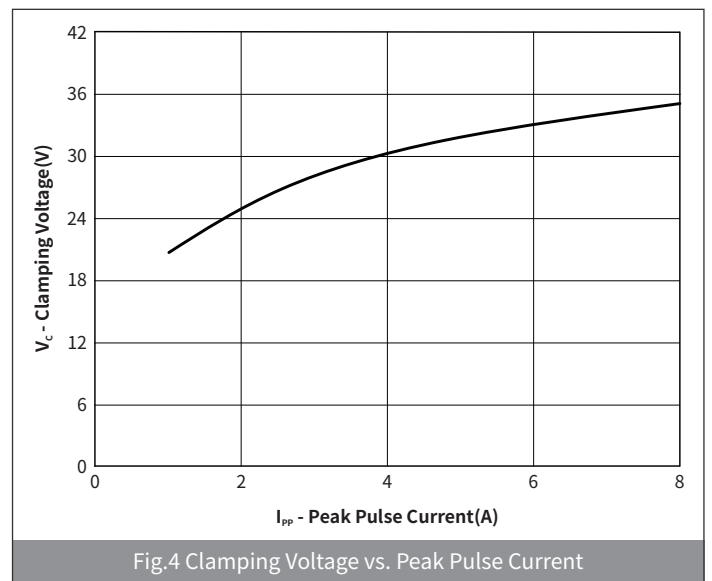
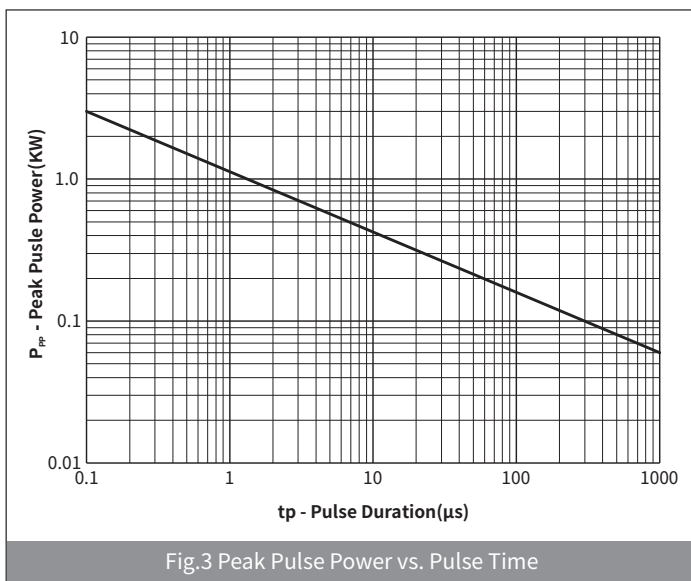
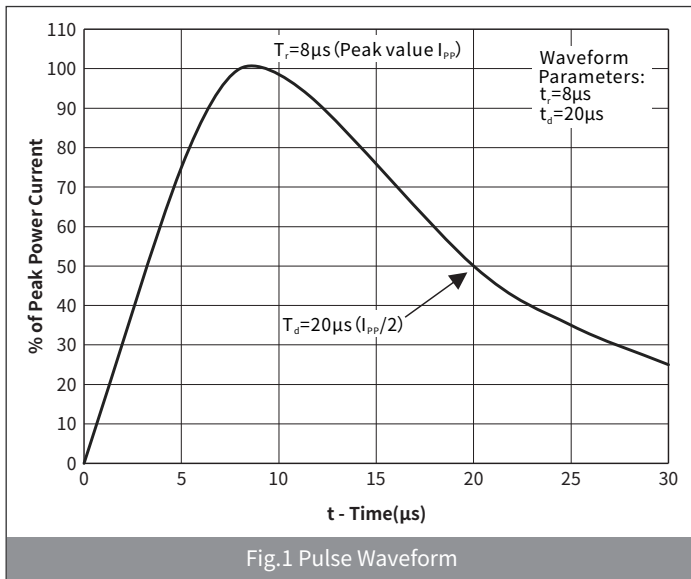
| SYMBOL | PARAMETER |
|------------------|--|
| V _C | Clamping Voltage @ I _{PP} |
| V _{BR} | Breakdown Voltage @ I _T |
| I _{PP} | Peak Pulse Current |
| I _T | Test Current |
| I _R | Reverse Leakage Current @ VRWM |
| V _{RWM} | Peak Reverse Working Voltage |
| P _{PP} | Peak Pulse Power Dissipation |
| C _J | Junction Capacitance @ V _R =0V,f=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} | $I_R=1.0\text{mA}, T_a=25^\circ\text{C}$ | 16 | — | 20 | V |
| Reverse Leakage Current | I_R | $V_R=15\text{V}, T_a=25^\circ\text{C}$ | — | — | 0.2 | μA |
| 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

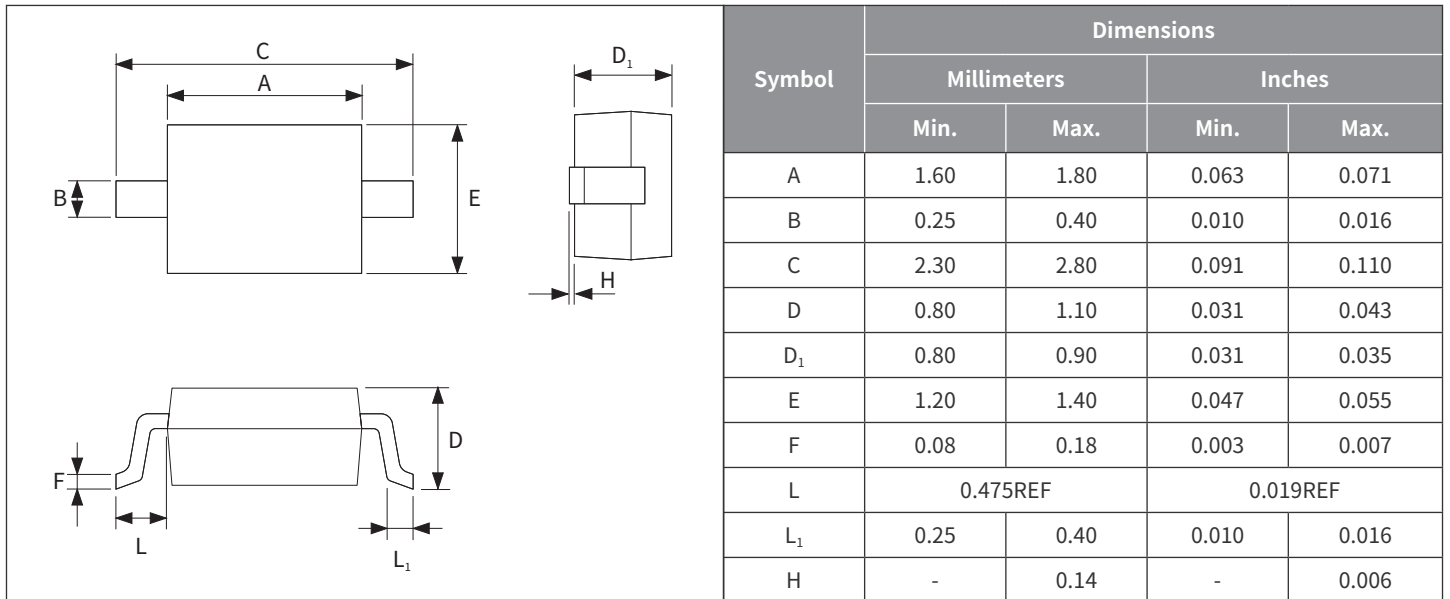
Ordering Information

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

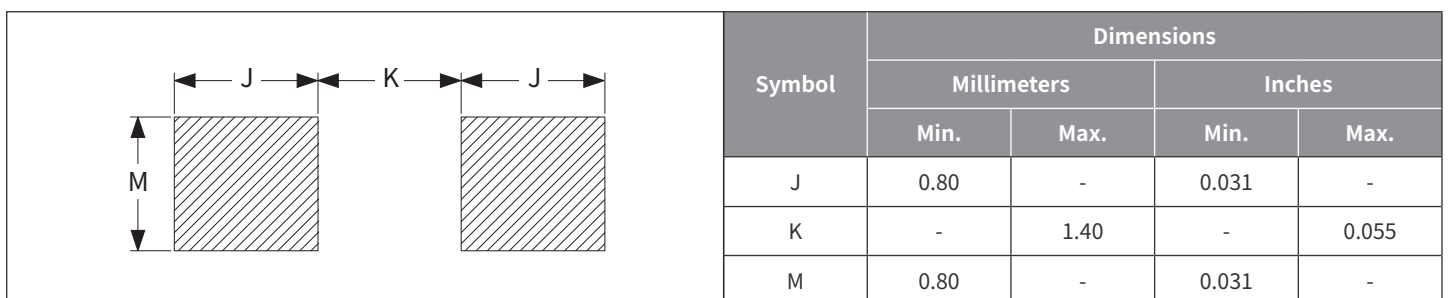
Recommended Soldering Conditions



Package Outline Dimensions (SOD-323)



Suggested Pad Layout



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [ESD Suppressors / TVS Diodes](#) category:

Click to view products by [hongjiacheng](#) manufacturer:

Other Similar products are found below :

[60KS200C](#) [D18V0L1B2LP-7B](#) [D5V0F4U5P5-7](#) [NTE4902](#) [P4KE27CA](#) [P6KE11CA](#) [P6KE8.2A](#) [SA60CA](#) [SA64CA](#) [SMBJ12CATR](#)
[SMBJ33CATR](#) [SMBJ6.5A](#) [SMBJ8.0A](#) [ESD101-B1-02ELS E6327](#) [ESD112-B1-02EL E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-](#)
[HF](#) [3.0SMCJ33CA-F](#) [3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JANTX1N6126A](#) [D3V3Q1B2DLP3-7](#) [D55V0M1B2WS-7](#) [SCM1293A-04SO](#)
[ESD200-B1-CSP0201 E6327](#) [SM12-7](#) [CEN955 W/DATA](#) [VESD12A1A-HD1-GS08](#) [CPDQC5V0-HF](#) [D1213A-01LP4-7B](#) [ESD101-B1-02EL](#)
[E6327](#) [AOZ8808DI-03](#) [5KP15A](#) [5KP48A](#) [5KP90A](#) [ESD3V3D7-TP](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#) [P4KE91CATR](#) [P6KE120A](#)
[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)