

Bi-directional ESD Protection Diodes	Peak Pulse Power - 350 Watts					
Description	Mechanical Data					
The HxxxD3xVxBL series are low capacitance bidirectional ele- static discharge (ESD) protection diodes in small surface-mour device (SMD) plastic packages designed to protect one data lin from the damage caused by ESD.	 Case: SOD323 Package Case Material: "Green" Molding Compound UL Flammability Classification Rating 94V-0 Component in accordance to RoHS Terminals:Matte tin plated,solderable per MIL-STD-750, method 2026 					
Features	•Halogen Free					
1 Channel of ESD Protection (Bi-directional)	Note: Products with logo					
Peak Pulse Power :Ppp = 350W (tp=8/20 us)	are made by HY Electronic (Cayman) Limited.					
Reverse Working Voltage : 3.3V thru 36V	Ordering Information					
Low Leakage Current	Package :SOD323					
 Low Clamping Voltage 	Reel Size :7 (inches)					
 Low Capacitance :0.8pF (Typ) 	 Quantity Per Reel :3,000/Tape & Reel 					
 IEC 61000-4-2 (ESD) :±27kV(Contact) / ±30kV(Air) 	Quantity One Box :45,000/Tape & Reel					
	 Quantity One Carton :180,000/Tape & Reel 					
Applications	Marking Information					
 Ethernet - 10/100/1000 Base T 						
 Handheld - Wireless Systems 	Marking Code					
USB Interface						
	"CC" =3.3V Product Type Marking Code "AC" =5V Product Type Marking Code					
	See marking code of Page 2					
Package Outline	Device Schematic & PIN Configuration					
SOD323 Top View						
Maximum Ratings (@TA = +25°C, unless otherwise s	specified.)					
Absolute Ratings						
Parameter	Symbol Value Un					
Parameter Peak Pulse Power Dissipation (8/20 us)	Symbol Value Un PPP 350 W					
	Ppp 350 W ±27 W 1000000000000000000000000000000000000					
Peak Pulse Power Dissipation (8/20 us)	PPP 350 W					
Peak Pulse Power Dissipation (8/20 us) ESD Protection- Contact (Standard IEC 61000-4-2)	Ppp 350 W VESD ±27 k					
Peak Pulse Power Dissipation (8/20 us) ESD Protection- Contact (Standard IEC 61000-4-2) ESD Protection- Air (Standard IEC 61000-4-2)	$\begin{array}{c c} & P_{PP} & 350 & W \\ \hline \\ & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & & \\ & & $					



Max

1.8

1.4

2.7

1.0

0.35

0.15

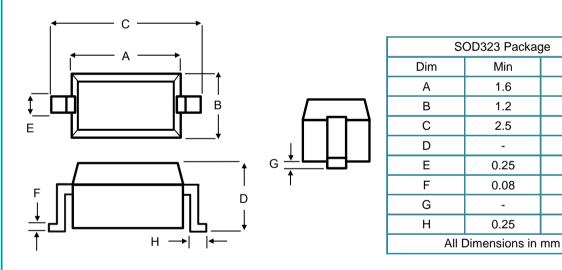
0.1

0.4

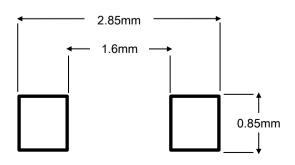
Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Part Number	Marking Code	Reverse Working Voltage(Max) Vrwm(V)	Reverse Breakdown Voltage(Min) VB(V) @IT=1mA	Reverse Current(Max) IR(uA) @Vr=VRWM	Reverse Clamping Voltage(Max) Vc(V) @IPP=1A	Reverse Clamping Voltage(Max) Vc(V) @IPP=Max.	Peak Pulse Current(Max) IPP(A)	Junction Capacitance(Typ) Cj(pF) @VR=0V.F=1MHz
H20D33V3BL	СС	3.3	4	5	7	20	20	0.8
H18D35V0BL	AC	5	6	1	9.8	20	18	0.8
H18D38V0BL	вс	8	8.5	1	13.4	24	18	0.8
H12D312VBL	DC	12	13.3	1	19	28.6	12	0.8
H10D315VBL	EC	15	16.7	1	24	31.8	10	0.8
H07D318VBL	FC	18	20	1	35	53	7	0.8
H06D324VBL	НС	24	26.7	1	43	56	6	0.8
H4A5D336VBL	IC	36	40	1	60	75	4.5	0.8

Package Outline Dimensions



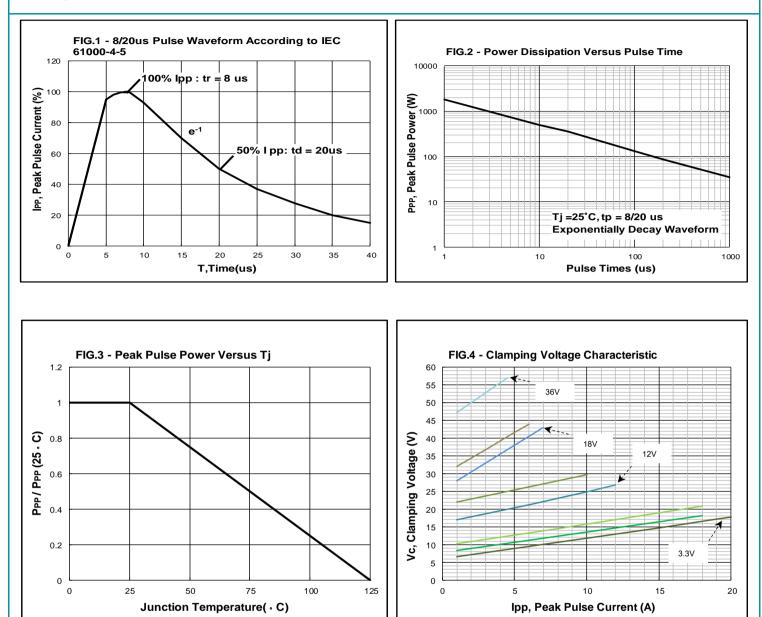
Suggested Soldering Pad Layout



HxxxD3xVxBL*-7-99-01 Rev-0, 9-Apr-2021



Rating and Characteristic Curves



The curve above is for reference only.

Legal Disclaimer Notice

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All specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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