



SE03S1BMD3 THRU SE24S1BMD3

ESD PROTECTION DIODE

FEATURES

- 350 W Peak Pulse Power per Line (tp=8/20μs)
- IEC61000-4-2(ESD) 15kV(air), 8kV(Contact)
- IEC61000-4-4(EFT) 40A(5/50ns)
- Protect One Power or I/O Port
- Low Clamping Voltage
- Low leakage current
- Bidirectional Configurations
- Suffix " H " indicated Halogen-free part, ex.SE03S1BMD3H

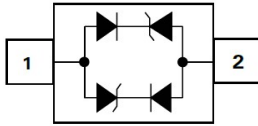
APPLICATIONS

- Notebooks, Desktops, and Servers
- USB Interface
- Automotive Electronics
- Personal Digital Assistant(PDA)
- Networking and Telecom(Ethernet 10/100/1000 Base T)

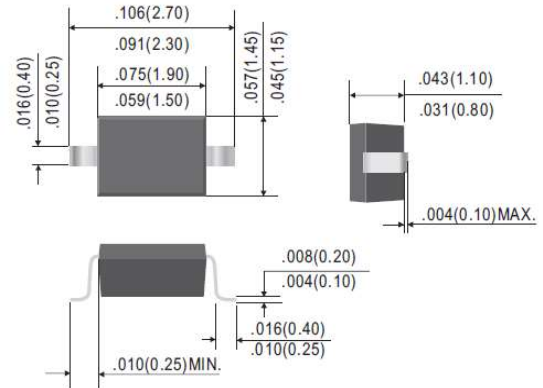
MECHANICAL DATA

Case : SOD-323

PIN CONFIGURATION



SOD-323



Dimensions in inches and (millimeters)

Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified)

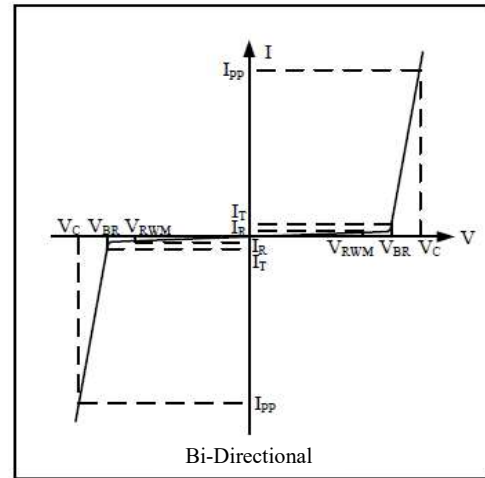
Parameter	Symbol	Value	Units
Peak Pulse Power (tp = 8/20μs)	P _{PP}	350	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	15	kV
ESD per IEC 61000-4-2 (Contact)		8	
Operating Junction Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C



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Symbol	Parameter
V_{RWM}	Nominal Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Reverse Breakdown Voltage @ I_T
I_T	Test Current for Reverse Breakdown
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Maximum Peak Pulse Current
V_R	Reverse Voltage
C_J	Capacitance



Electrical Characteristics Per line @ 25°C Unless Otherwise Specified

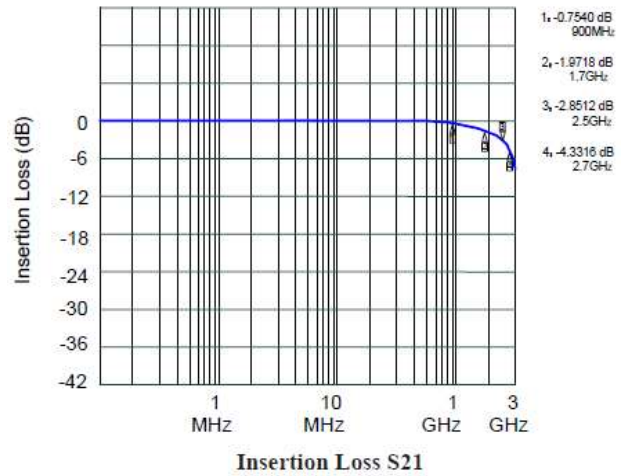
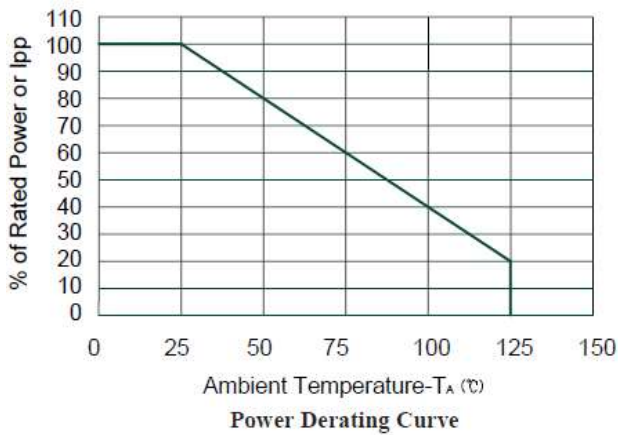
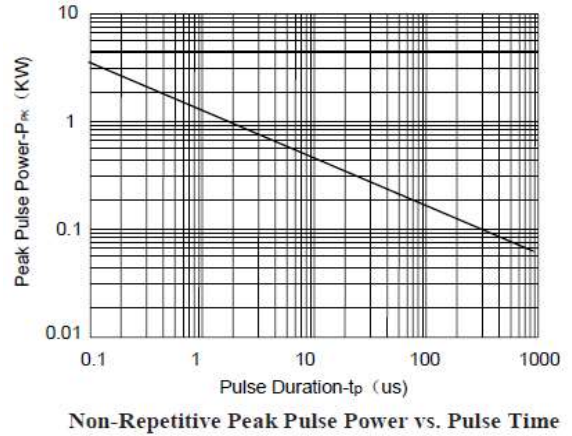
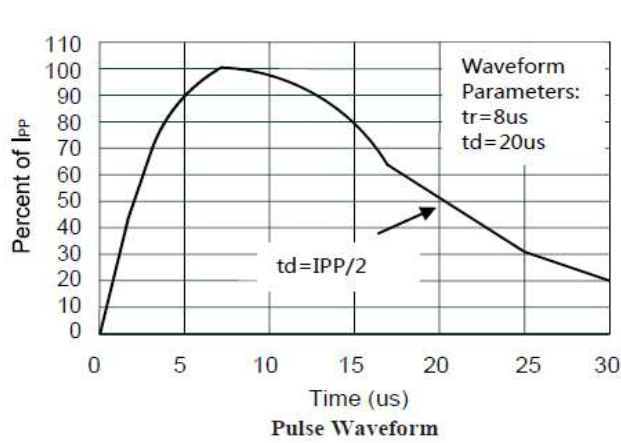
Part Numbers	V_{RWM}	I_R	V_{BR}	I_T	V_c	I_{PP}	C_J	
	(V)	(μ A)	Min.(V)	(mA)	@ $I_{PP}=1A$ (V)	@8/20 μ S Max.(A)	@ $V_R=0V, 1MHz$ Typ.(pF)	Max.(pF)
SE03S1BMD3	3.3	5.0	4.0	1.0	7.5	20.0	0.8	1.5
SE05S1BMD3	5.0	1.0	6.0	1.0	9.8	17.0	0.8	1.5
SE08S1BMD3	8.0	1.0	8.5	1.0	13.6	15.0	0.8	1.5
SE12S1BMD3	12.0	1.0	13.3	1.0	17.8	11.0	0.8	1.5
SE15S1BMD3	15.0	1.0	16.7	1.0	23.5	10.0	0.8	1.5
SE24S1BMD3	24.0	1.0	26.7	1.0	38.0	6.0	0.8	1.5



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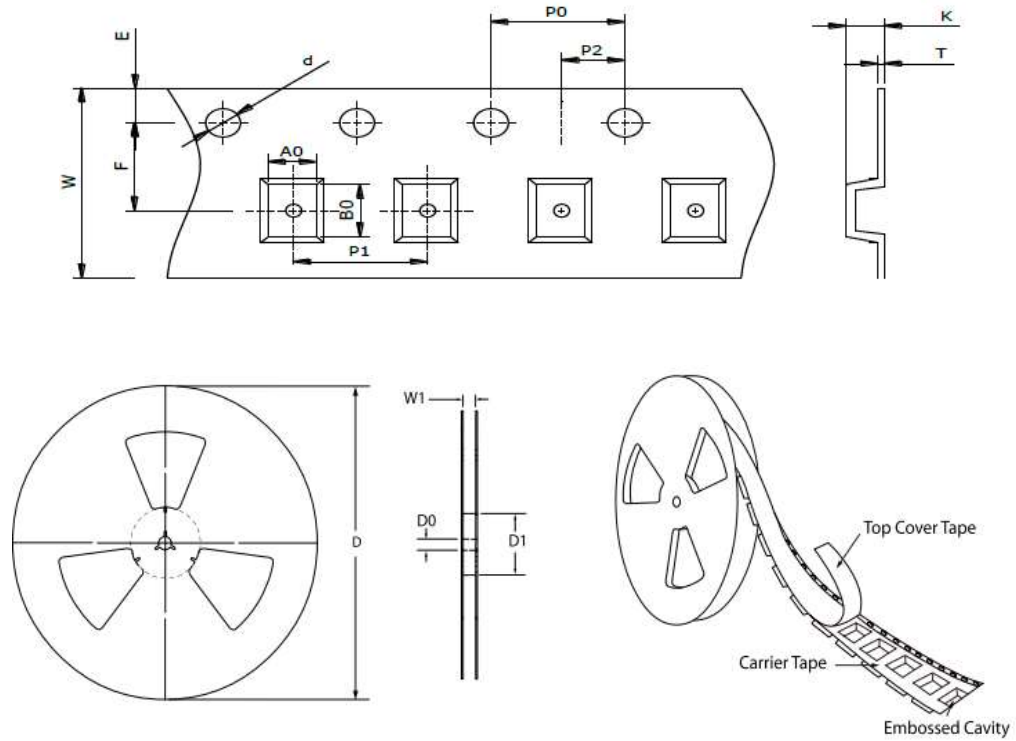
RATINGS AND CHARACTERISTIC CURVES





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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-323
Carrier width	A ₀	1.50 ± 0.10
Carrier length	B ₀	3.30 ± 0.10
Carrier depth	K	0.95 ± 0.10
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D ₀	13.00 ± 0.20
Reel inner diameter	D ₁	MIN. 54.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P ₀	4.00 ± 0.10
Punch hole pitch	P ₁	4.00 ± 0.10
Embossment center	P ₂	2.00 ± 0.10
Overall tape thickness	T	0.20 ± 0.05
Tape width	W	8.00 ± 0.20
Reel width	W1	MAX. 13.50

ORDER INFORMATION

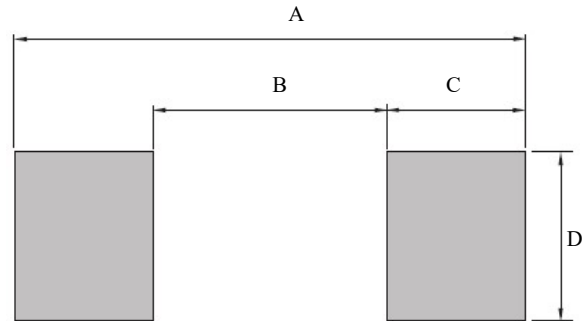
Package	Reel Size	Quantity
SOD-323	7"	3,000



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SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
SOD-323	2.85	1.45	0.70	0.70