

Product data sheet

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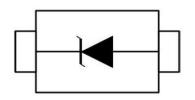
- ♦ 350 Watts peak pulse power (tp = 8/20µs)
- Transient protection for high speed data lines to IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC 61000-4-4 (EFT) 40A (5/50ns)
- ♦ Working voltages : 3.3V-36V
- Protects one bidirectional line
- Low operating and clamping voltages
- Solid-state silicon avalanche technology



- Notebooks, Desktops, Servers and Video Graphics Cards
- USB Power & Data Line Protection
- Monitors and Flat Panel Displays
- I²C Bus Protection
- Portable Instrumentation
- Set Top Box

Symbol	Parameter	Value	Units
V _{ESD}	VESDESD per IEC 61000-4-2 (Air)ESD per IEC 61000-4-2 (Contact)		kV
P _{PP}	Peak Pulse Power (8/20µs)	350	W
Т _{ОРТ}	Operating Temperature	-55/+150	°C
T _{STG}	Storage Temperature	-55/+150	°C
T∟	T _L Lead Soldering Temperature		°C





SOD-323

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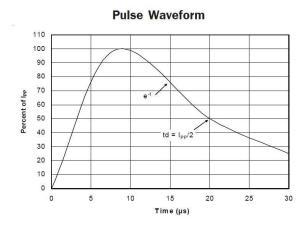
Semiconducto	or Compiance

SDXX-MS HF

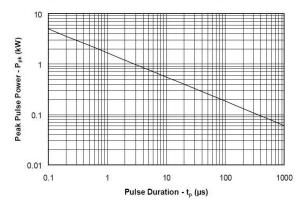
RoHS

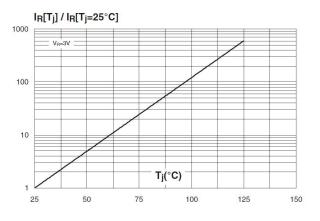
	V _{RWM}	VB	Ι _Τ	V _c @1A	V	С	I _R	Ст
P/N	(V)	(V)	(mA)	(V)	(\	/)	(µA)	(pF)
	(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
SD03-MS	3.3	4	1	6.5	14	20	40	450
SD05-MS	5	6	1	9.8	18	17	10	300
SD08-MS	8	8.5	1	10.5	24	15	1	240
SD12-MS	12	13.3	1	19	32	11	1	130
SD15-MS	15	16.7	1	24	38	10	1	120
SD18-MS	18	20.0	1	29	45	9	1	100
SD20-MS	20	22.3	1	35	50	8	1	90
SD24-MS	24	26.7	1	43	52	7	1	80
SD36-MS	36	40	1	60	75	5	1	60

Typical Characteristics@ Ta=25°C unless otherwise specified

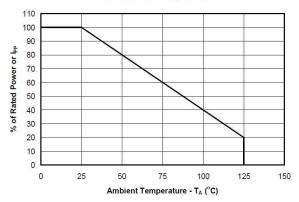


Non-Repetitive Peak Pulse Power vs. Pulse Time



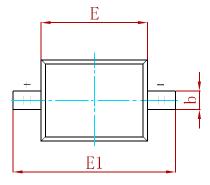


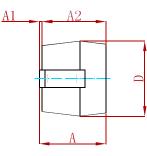
Power Derating Curve

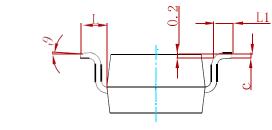




PACKAGE MECHANICAL DATA

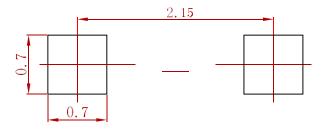






Symbol	Dimensions In Millimeters		Dimension	s In Inches
Symbol	Min.	Max.	Min.	Max.
A		1.000		0.039
A 1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
с	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019 REF.	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

Suggested Pad Layout



Note:

1.Controlling dimension:in millimeters.

2.General tolerance:±0.05mm.

3. The pad layout is for reference purposes only.

REEL SPECIFICATION

	P/N	PKG	QTY		
SDXX-MS		SOD-323	3000		



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