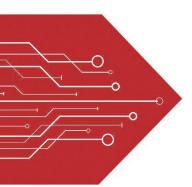
MSKSEMI















ESD

TVS

TSS

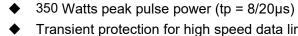
MOV

GDT

PLED

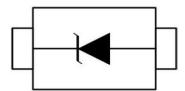
Broduct data sheet





- ◆ 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





SOD-323

Applications

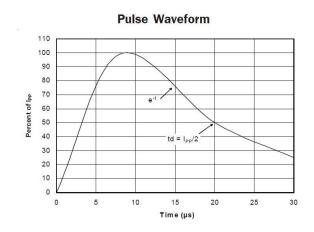
- Notebooks, Desktops, Servers and Video Graphics Cards
- ◆ USB Power & Data Line Protection
- Monitors and Flat Panel Displays
- ♦ I²C Bus Protection
- ◆ Portable Instrumentation
- ♦ Set Top Box

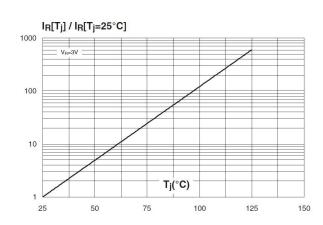
Symbol	Parameter	Value	Units	
V	ESD per IEC 61000-4-2 (Air)	±15	kV	
V _{ESD}	ESD per IEC 61000-4-2 (Contact)	±8		
P _{PP}	Peak Pulse Power (8/20μs)	350	W	
T _{OPT}	Operating Temperature	-55/+150	°C	
T_{STG}	Storage Temperature	-55/+150	°C	
T∟	T _L Lead Soldering Temperature		°C	



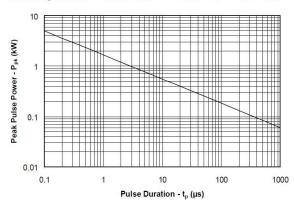
	V_{RWM}	V _B	Ι _Τ	Vc@1A	V	C	I _R	Ст
P/N	(V)	(V)	(mA)	(V)	(V)		(µA)	(pF)
.,,,	(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
SD03-MS	3.3	4	1	6.5	14	20	40	450
SD05-MS	5	6	1	9.8	18	17	10	300
SD08-MS	8	8.5	1	10.5	24	15	1	240
SD12-MS	12	13.3	1	19	32	11	1	130
SD15-MS	15	16.7	1	24	38	10	1	120
SD18-MS	18	20.0	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

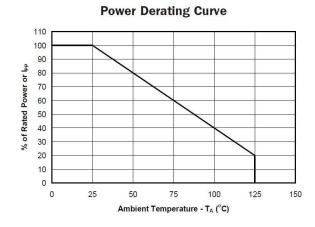
Typical Characteristics@ Ta=25°C unless otherwise specified





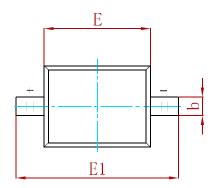
Non-Repetitive Peak Pulse Power vs. Pulse Time

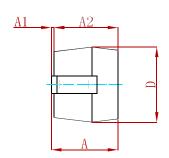


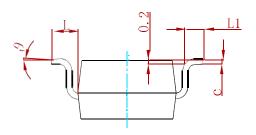




PACKAGE MECHANICAL DATA

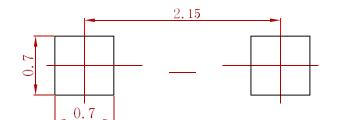






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L,	0.475	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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