MSKSEMI 美森科













FSD

TVS

TSS

MOV

GDT

PIFD

CESDXXXD1-MS

Product specification





FEATURES

- IEC61000-4-4 (EFT) 40A (5/50qs)
- 350 Watts Peak Pulse Power per (tp=8/20ps)
- Protects one I/O line (unidirectional)
- Low clamping voltage
- Working voltages: 3.3V to 36V
- Low leakage current

MACHANICAL DATA

- SOD-323 package
- Flammability Rating: UL 94V-0
- Packaging: Tape and Reel
- High temperature soldering guaranted:260°C/10s
- Reel size: 7 inch
- MSL 1

APPLICATIONS

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports
- Peripherals

Reference News

PACKAGE OUTLINE	PIN CONFIGURATION
SOD-323	

Marking for the SDXX-MS series

VRWM	3.3V	5V	8V	12V	15V	18V	20V	24V	36V
Marking	03W	05W	W80	12W	15W	18W	20W	24W	36W



ABSOLUTE MAXIMUM RATING

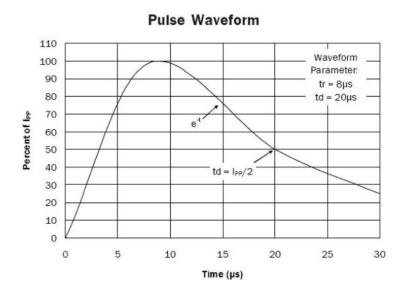
Symbol	Parameter	Value	Units
VESD	ESD per IEC 61000-4-2 (Air)	±15	kV
VLSD	ESD per IEC 61000-4-2 (Contact)	±8	K V
Ррр	Peak Pulse Power (8/20 [s)	350	W
^T OPT	Operating Temperature	-55/+150	$^{\circ}$
[™] STG	Storage Temperature	-55/+150	$^{\circ}$
TL	Lead Soldering Temperature	260 (10 sec.)	$^{\circ}$

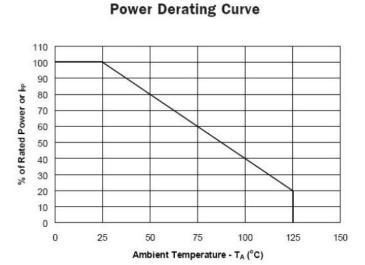
ELECTRICAL CHARACTERISTICS (Tamb=25℃)

PART	DEVICE	VRWM (V)	VB (V)	IT (mA)	Vc@1A	(V		^I R (MA)	^C T (pF)
NUMBER	MARKING	(max.)	(min.)		(V) (max.)	(max.)	(@A)	(max.)	(max.)
CESD3V0D1-MS	03W	3.3	4	1	6.5	14	20	40	450
CESD5V0D1-MS	05W	5	6	1	9.8	18	17	10	300
CESD8V0D1-MS	08W	8	8.5	1	10.5	24	15	1	240
CESD12VD1-MS	12W	12	13.3	1	19	32	11	1	130
CESD15VD1-MS	15W	15	16.7	1	24	38	10	1	120
CESD18VD1-MS	18W	18	20.0	1	29	45	9	1	100
CESD20VD1-MS	20W	20	22.3	1	35	50	8	1	90
CESD24VD1-MS	24W	24	26.7	1	43	52	7	1	80
CESD36VD1-MS	36W	36	40	1	60	75	5	1	60



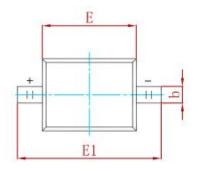
ELECTRICAL CHARACTERISTICS CURVE

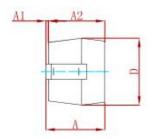


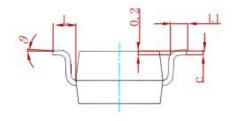




PACKAGE MECHANICAL DATA

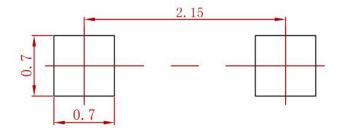






Symbol	Dimensions I	n Millimeters	Dimensions In Inches		
	Min Max		Min.	Max	
Α		1.000		0.039	
A1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475	REF	0.019	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
CESDXXXD1-MS	SOD-323	3000



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