MSKSEMI 美森科







TVC



TSS



MOV



GDT



PIFC

ESDA6V1SC6-MS

Product specification





Features

Protects up to 5 lines

Low leakage: nA level

Low clamping voltage

Excellent surge protection (80W at 8/20µs)

Complies with following standards:

- IEC 61000-4-2 (ESD) immunity test

Air discharge: ± 20 kV Contact discharge: ± 20 kV

- IEC61000-4-4 (EFT) 40A (5/50ns)

- IEC61000-4-5 (Lightning) 18A (8/20ps)

RoHS Compliant

Applications

- Audio Players
- Peripherals
- Portable Instrumentation
- Desktops PC and Servers
- Microprocessor Based Equipment
- Cell Phone Handsets and Accessories
- Notebook, Laptop, and Palmtop Computers

Mechanical Characteristics

- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Marking Information: See Below

Reference News

PACKAGE OUTLINE	Pin Configuration	Marking	
SOT-23-6	1	ES61	



Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

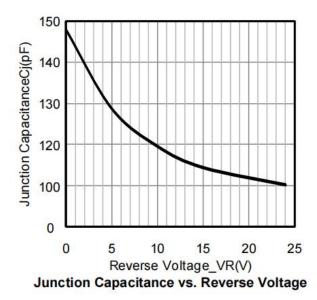
Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	350	W	
ESD per IEC 61000-4-2 (Air)	VESD	±20	Kv	
ESD per IEC 61000-4-2 (Contact)	- v E2D	±20	, KV	
Operating Temperature Range	TJ	-55 to +125	$^{\circ}$ C	
Storage Temperature Range	Тѕтл	-55 to +150	°C	

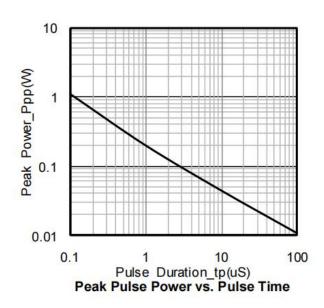
Electrical Characteristics(TA=25°C unless otherwise specified)

	V _{RWM}	V BR	Ь	V c	Vc		l _R	C (Pf)
P/N	(V)	(V)	(mA)	l⊤ V _c (mA) @1A	(Max)	(@A)	μΑ (Max)	(Typ.)
ESDA6V1SC6-MS	5.5	6	1	15	20	18	1.0	150

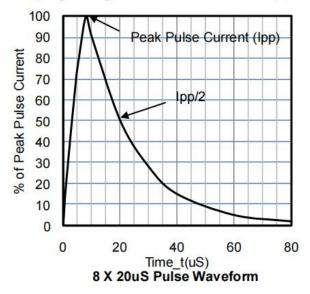


TypicalCharacteristics@Ta=25°Cunlessotherwisespecified

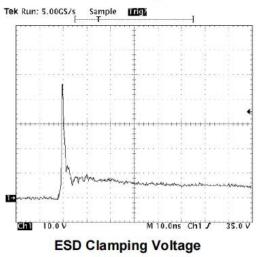




Clamping Voltage vs. Peak Pulse Current (tp = 8/20us)

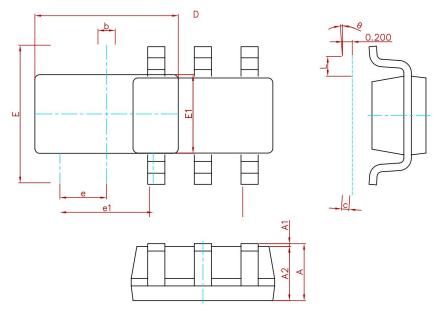


Power Derating Curve



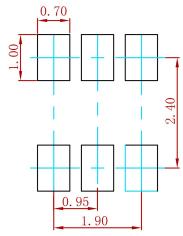


PACKAGE MECHANICAL DATA



Symbol	Dimensions II	n Millimeters	Dimensions	In Inches	
Cymbol	Min.	Max.	Min.	Max.	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
E	2.650	2.950	0.104	0.116	
е	0.950(BSC)		0.037	(BSC)	
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
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
ESDA6V1SC6-MS	SOT-23-6	3000



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