MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

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: ±20kV

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		ES61 •



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

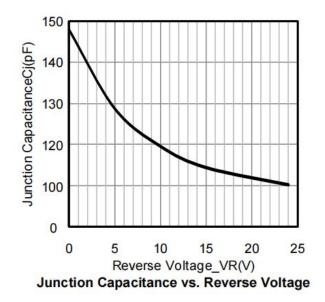
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ррр	350	W
ESD per IEC 61000-4-2 (Air)	VESD	±20	Kv
ESD per IEC 61000-4-2 (Contact)	V ESD	±20	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтј	-55 to +150	°C

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

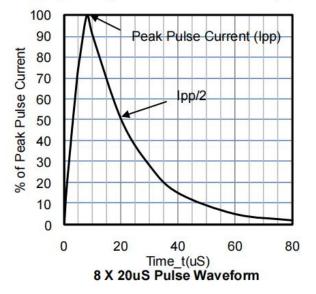
	Vrwm	VBR	н	Vc	Vc	;	l _ℝ μΑ (Max)	С (Pf) (Тур.)
P/N	(V)	(V)	(mA)	@1A	(Max)	(@A)		
ESDA6V1SC6-MS	5.5	6	1	15	20	18	1.0	150

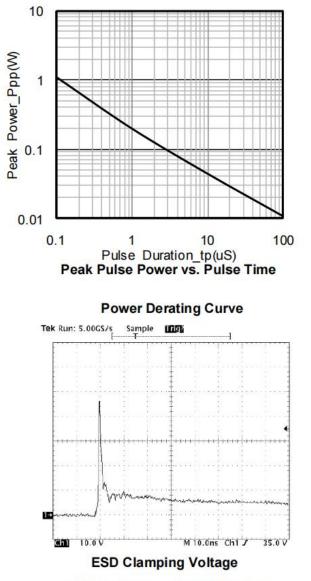


TypicalCharacteristics@Ta=25°Cunlessotherwisespecified







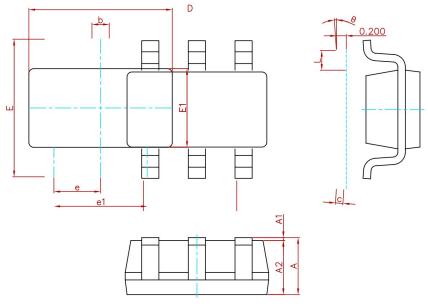


8 kV Contact per IEC61000-4-2



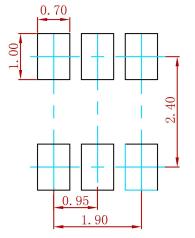


PACKAGE MECHANICAL DATA



Symbol	Dimensions II	n Millimeters	Dimensions	In Inches
Cymbol	Min.	Max.	Min.	Max.
A	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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