# 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:  $\pm 20$ 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)

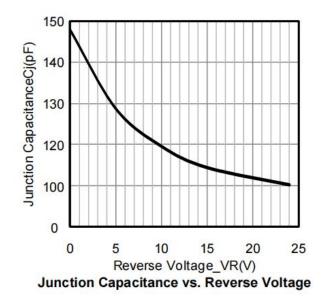
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ррр	350	W
ESD per IEC 61000-4-2 (Air)	- V <sub>ESD</sub>	±20	- Kv
ESD per IEC 61000-4-2 (Contact)	V ESD	±20	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтј	-55 to +150	°C

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

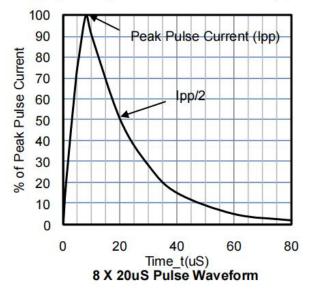
	Vrwm	VBR	н	Vc	Vc	;	l <sub>R</sub>	C (Pf)
P/N	(V)	(V)	(mA)	@1A	(Max)	(@A)	μΑ (Max)	(Тур.)
ESDA6V1SC6-MS	5.5	6	1	15	20	18	1.0	150

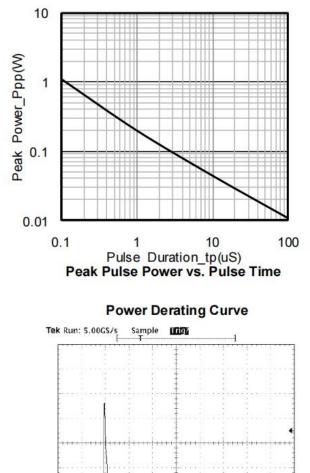


#### TypicalCharacteristics@Ta=25°Cunlessotherwisespecified









10.0 V

Ch1

M 10.0ns Ch1 J 35.0 V

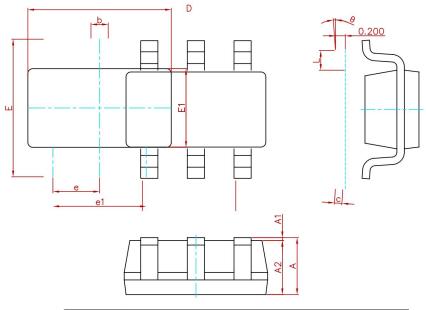
ESD Clamping Voltage

8 kV Contact per IEC61000-4-2



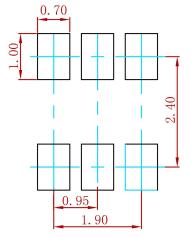


#### PACKAGE MECHANICAL DATA



	Max. 1.250	Min. 0.041	Max.
	1.250	0.041	
00		0.041	0.049
00	0.100	0.000	0.004
50	1.150	0.041	0.045
00	0.500	0.012	0.020
00	0.200	0.004	0.008
20	3.020	0.111	0.119
00	1.700	0.059	0.067
50	2.950	0.104	0.116
0.950(BSC)		0.037	(BSC)
00	2.000	0.071	0.079
00	0.600	0.012	0.024
0	8°	0°	8°
	00 00 20 00 50 0.950(BSC 00	00      0.500        00      0.200        20      3.020        00      1.700        50      2.950        0.950(BSC)      00        00      2.000        00      0.600	00      0.500      0.012        00      0.200      0.004        20      3.020      0.111        00      1.700      0.059        50      2.950      0.104        0.950(BSC)      0.037        00      2.000      0.012

### 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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