MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

LESDA6V1W6T1G-MS

Product specification





LESDA6V1W6T1G-MS

FEATURES

- IEC 61000-4-2 Level 4 ESD Protection
 - ±30kV Contact Discharge
 - ±30kV Air Discharge
- 150W Peak pulse Power (8/20us)
- Low clamping voltage

- Working voltage: 5V
- Low leakage current
- RoHS compliant
- Protecting 5 unidirectional lines
- Capacitance: 100pF Typ.

APPLICATIONS

- Cellular Handsets and Accessories
- Cordless Phones
- Personal Digital Assistants (PDA's)

- Notebooks & Handhelds
- Digital Cameras
- Portable Instrumentation

Pin Configuration and Functions

PACKAGE OUTLINE	PIN CONFIGURATION	Marking
HSISSII S		6 5 4 6JC
SOT-323-6		4 2 1

Pin	Name	Description
1	101	Connect to I/O
2	GND	Connect to GND
3	102	Connect to I/O
4	103	Connect to I/O
5	104	Connect to I/O
6	105	Connect to I/O



ABSOLUTE MAXIMUM RATING

Over operating free-air temperature range (unless otherwise noted)

Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P_{pk}	-	100	W
Peak pulse current (tp=8/20us)@25°C	IPP		12	A
ESD (IEC61000-4-2 air discharge) @25℃	V_{ESD}	-	±30	kV
ESD (IEC61000-4-2 contact discharge) @25°C	Vesd	-	±30	kV
Junction temperature	T_{J}	-	150	°C
Operating temperature	T _{OP}	-40	125	°C
Storage temperature	T_{STG}	-55	150	°C
Lead temperature	T∟	-	260	°C

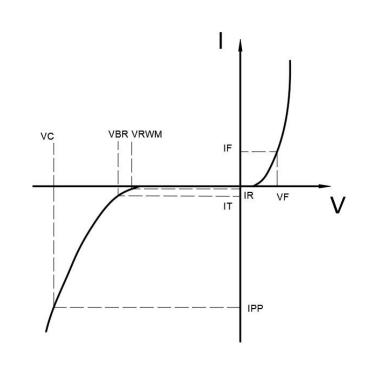
ELECTRICAL CHARACTERISTICS (Tamb=25℃)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	IT=1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	uA
Clamping Voltage	Vc	I _{PP} =1A; tp=8/20us		7.5		V
Clamping Voltage	Vc	I _{PP} =12A; tp=8/20us		11		V
Junction Capacitance	CJ	I/O to GND; VR=0V; f=1MHz		100		pF

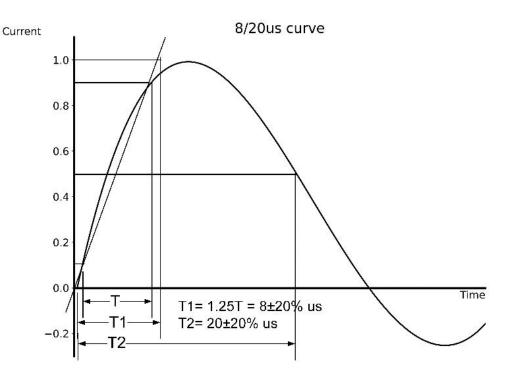
LESDA6V1W6T1G-MS



Symbol	Parameters	
V _{RWM}	Peak Reverse Working Voltage	
IR	Reverse Leakage Current @ V _{RWM}	
VBR	Breakdown Voltage @ I⊤	
lτ	Test Current	
I _{PP}	Maximum Reverse Peak Pulse Current	
Vc	Clamping Voltage @ IPP	
lF	Forward Current	
VF	Forward Voltage @ I _F	

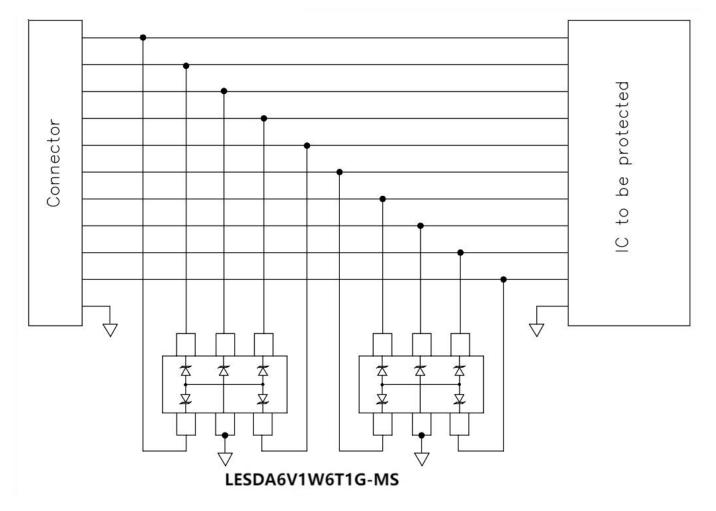


Typical Characteristic



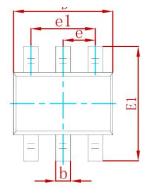


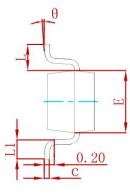
Typical Application

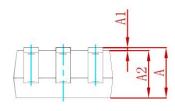




PACKAGE MECHANICAL DATA

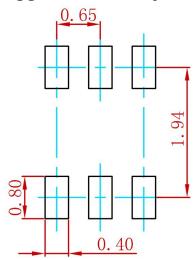






Symbol	Dimensions	In Millimeters	Dimensions	In Inches
Symbol	Min	Max	Min	Max
А	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
С	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650) TYP	0.026	6 TYP
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
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
LESDA6V1W6T1G-MS	SOT-323-6	3000



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