

Transil array for data protection

Description

The ESDA6V1W6 is monolithic suppressor designed to protect components connected to data and transmission lines against ESD. This device clamps the voltage just above the logic level supply for positive transients and to a diode drop below ground for negative transients.

Features

- 5 Unidirectional Transil functions
- Low leakage current: < 1 μA
- High integration
- RoHS Compliant Package

Application

- Computers
- Printers
- Communication systems
- · Cellular phones handsets and accessories
- · Wireline and wireless telephone sets
- Set top boxes

Complies with the following standards

- IEC61000-4-2
- Level 4 15 kV (air discharge)

8 kV(contact discharge)

- MIL STD 883E Method 3015-7 Class 3
- 25 kV HBM (Human Body Model)

Packing & Order Information

3,000/Reel





Graphic symbol







SOLDERING FOOTPRINT



SOT-363				
Dim	Min Max			
Α	2.00 2.20			
В	1.15 1.35			
С	0.95 Typical			
D	0.25 Typical			
E	0.25 0.40			
G	0.60 0.70			
Н	0.02 0.10			
J	0.10 Typical			
К	2.2	2.4		
All Dimensions in mm				



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Absolute Ratings (Tamb=25°C)					
Symbol	Parameter	Value	Unit		
Ррр	Peak Pulse Power (tp = 8/20µs)	150	W		
TJ	Maximum lead temperature for soldering during 10s	260	°C		
Tstg	Storage Temperature Range	-40 to +125	°C		
Тор	Operating Temperature Range	-40 to +125	°C		

Electrical Charac	cteris tic s								
		V_{BR}		т	V	тр	V _F	т	C
Part Numbers	Min.	Typ.	Max.	IT	VRWM	IK	Max.	1 _F	C
	V	V	V	mA	V	μA	V	mA	Typ. Ov bias
ESDA6V1W5	6.1	6.7	7.2	1	5	1	1.25	200	35

1.Square pulse IPP=15A,tp=2.5 μ s 2.V=aT*(T-25°C)*V(25°C)

Symbol	Parameter			
IPP	Maximum Reverse Peak Pulse Current			
Vc	Clamping Voltage @ IPP			
VRWM	Working Peak Reverse Voltage			
I _R	Maximum Reverse Leakage Current @ V _{RWM}			
Ι _τ	Test Current			
VBR	Breakdown Voltage @ I _T			
I _F	Forward Current			
VF	Forward Voltage @ I _F			





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Typical Device Characteristics





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