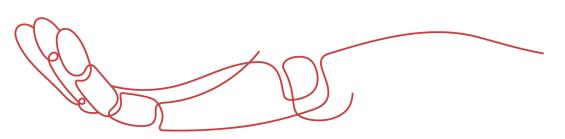




PRODUCT DATA SHEET



To learn more about JGSEMI, please visit our website at







Datasheet

es Samples

Please note: Please check the JINGAO Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.jg-semi.cn. Please email any questions regarding the system integration to JINGAO_questions@jgsemi.com.



LESDA6V8AW5T1G

Low Capacitance Q uad Array for ESD Protect

Features

Ultra low leakage: nA level

Operating voltage: 5V

- Low clamping voltage
- · Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test

Air discharge: ±30kV Contact discharge: ±25kV

- IEC61000-4-5 (Lightning) 6A (8/20μs)
- RoHS Compliant
- AEC-Q101 qualified

Applications

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

Mechanical Characteristics

Package: SOT-353

Lead Finish: Lead Free

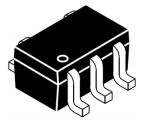
UL Flammability Classification Rating 94V-0

Quantity Per Reel:3,000pcs

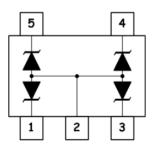
Reel Size:7inch

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

2 - 10 - 0 - 10 - 10 - 10 - 10 - 10 - 10				
Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	150	W	
ESD per IEC 61000-4-2 (Air)	VESD	±30	Kv	
ESD per IEC 61000-4-2 (Contact)	VESD	±25	, KV	
Operating Temperature Range	TJ	-40 to +125	°C	
Storage Temperature Range	Тѕтл	-40 to +125	°C	



SOT-353







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

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Reverse Working Voltage	V _{RWM}			5		V
Breakdown Voltage	V_{BR}	Iτ = 1mA	6.1	6.7	7.2	V
Reverse Leakage Current	I _R	VRWM = 5V			1	μΑ
Clamping Voltage	Vc	IPP = 1A (8 x 20 µs pulse)		10	15	V
Clamping Voltage	Vc	IPP = 6A (8 x 20 μs pulse)		13.5	20	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		90		pF



Characteristic Curves

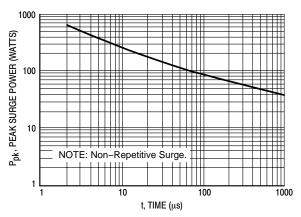


Figure 1. Pulse Width

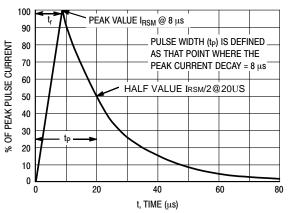


Figure 2. 8 x 20 µs Pulse Waveform

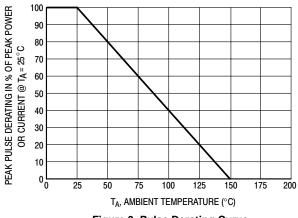


Figure 3. Pulse Derating Curve

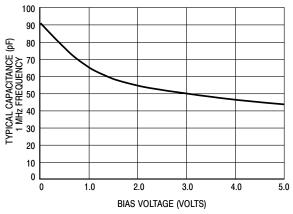


Figure 4. Capacitance

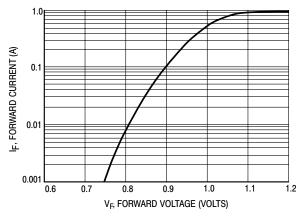


Figure 5. Forward Voltage

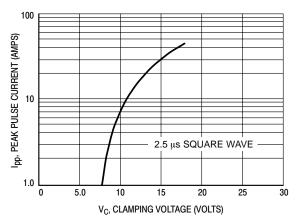
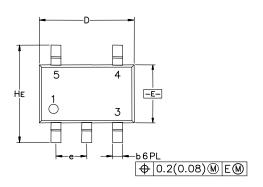


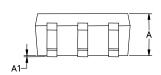
Figure 6. Clamping Voltage versus Peak Pulse Current (Reverse Direction)

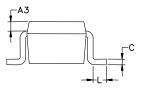




SOT-353 Package Outline & Dimensions

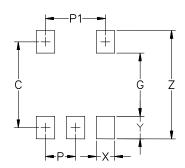






Inches		Millimeters				
Symbol	Min.	Nom.	Max.	Min.	Nom.	Max.
Α	0.031	0.037	0.043	0.80	0.95	1.10
A1	0.000	0.002	0.004	0.00	0.05	0.10
А3	0.08 REF		0.2 REF			
b	0.004	0.008	0.012	0.10	0.21	0.30
C	0.004	0.005	0.010	0.10	0.14	0.25
D	0.070	0.078	0.086	1.80	2.00	2.20
E	0.045	0.049	0.053	1.15	1.25	1.35
е	0.026 BSC			0	.65 BS	С
L	0.004	0.008	0.012	0.10	0.20	0.30
HE	0.078	0.082	0.086	2.00	2.10	2.20

Soldering Footprint



		1		
Symbol	Inches	Millimeters		
С	0.0748	1.9		
G	0.055	1.40		
Р	0.025	0.65		
P1	0.051	1.30		
Х	0.0157	0.40		
Y	0.019	0.50		
Z	0.0945	2.4		

LESDA6V8AW5T1G



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