

PRODUCT DATA SHEET



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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.



RLST553A034V

LOW CAPACITANCE TVS DIODE ARRAY

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: ±15kV

Contact discharge: ±8kV

- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 5A (8/20µs)

RoHS Compliant

Applications

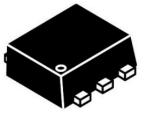
- Ethernet Interface
- Switchin Systems
- Access Equipment •
- Central Of fice Equipment
- Customer Premise Equipment •
- Microcontroller Input Protection

Mechanical Characteristics

- Package: SOT-553
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:3,000pcs
- Reel Size:7inch

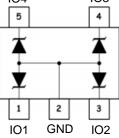
Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	60	W	
ESD per IEC 61000-4-2 (Air)	\/	±15	K	
ESD per IEC 61000-4-2 (Contact)	Vesd	±8	Kv	
Operating Temperature Range	TJ	-55 to +125	°C	
Storage Temperature Range	Тѕтј	-55 to +150	°C	





SOT-553



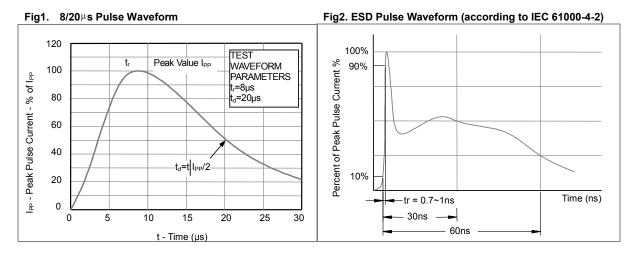
Ver.1.0



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

Dort Number	V _{RWM}	Vbr	Iτ	Vc @1A			C	Iռ µA (Max)	C (Pf) (Typ.)
Part Number	(V)	(V)	(mA)		(Max)	(@A)			
RLST553A034V	5	6	1	9.8	12	5	0.5	0.7	

Characteristic Curves



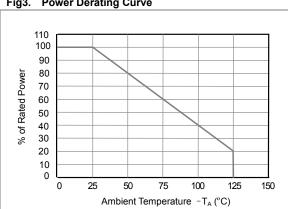
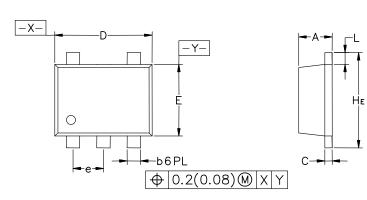


Fig3. Power Derating Curve

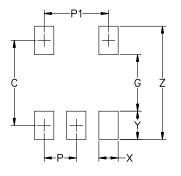


SOT-553 Package Outline & Dimensions



Symbol		Inches		Millimeters		
Symbol	Min.	Nom.	Max.	Min.	Nom.	Max.
Α	0.020	0.021	0.023	0.50	0.55	0.60
b	0.007	0.009	0.011	0.17	0.22	0.27
С	0.003	0.005	0.007	0.08	0.12	0.18
D	0.059	0.062	0.066	1.50	1.60	1.70
Е	0.043	0.047	0.051	1.10	1.20	1.30
е	0.02 BSC			0.5 BSC		
L	0.004	0.008	0.012	0.10	0.20	0.30
HE	0.059	0.062	0.067	1.50	1.60	1.70

Soldering Footprint



Symbol	Inches	Millimeters		
С	0.0531	1.35		
G	0.0354	0.90		
Р	0.0197	0.50		
P1	0.0394	1.0		
Х	0.0118	0.30		
Y	0.0177	0.45		
Z	0.0709	1.80		





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Ver.1.0