



# PJESDA5V6-4LCG SERIES

## LOW CAPACITANCE QUAD ARREY FOR ESD PROTECTION

SOT-553

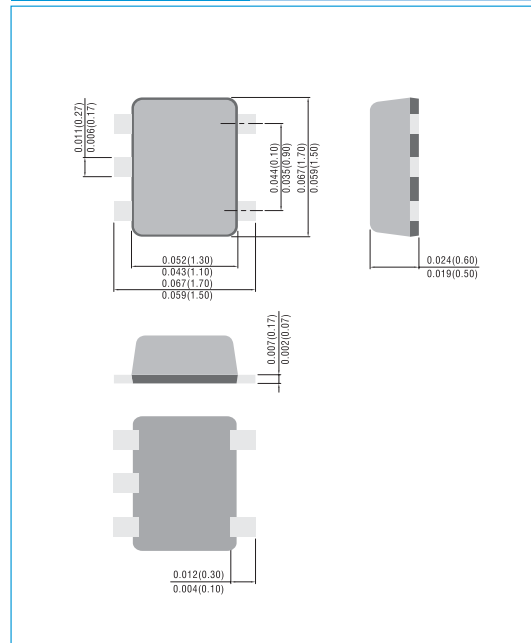
Unit: inch (mm)

### FEATURES

- ESD Protection : IEC61000-4-2
- Four Separate Unidirectional Configurations for Protection
- Low Leakage Current < 1μA @ 3Volts
- Power Dissipation : 380mW
- Low Capacitance
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: SOT-553, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.002 gram
- Mounting Position: Any



### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

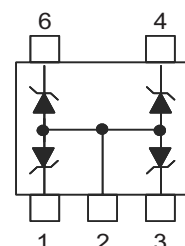
Parameter	Symbol	Value	Units
Peak Power Dissipation (8x20 μs@TA=25°C) (Note 1)	PPK	20	W
Steady State Power-1 Diode (Note 2)	Pd	380	mW
Thermal Resistance, Junction-to-Ambient Above 25°C Derate	RθJA	327 3.05	°C/W mW/°C
Maximum Junction Temperature	TJMAX	150	°C
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 to +150	°C
Lead Solder Temperature (10 seconds duration)	TL	260	°C

### ELECTRAICAL CHARACTERISTICS(TA=25°C)

Part Number	Breakdown Voltage VBR @ 1mA (Volts)			Leakage Current IRM@VRM		VC MAX@IPP		Typ Capacitance@0V Bias (pF)(Note 3)		Typ Capacitance@3V Bias (pF)(Note 3)		Marking Code
	Min.	Nom.	Max.	VRWM	IRWM(mA)	VC(V)	IPP(A)	Typ	Max	Typ	Max	
PJESDA5V6-4LCG	5.32	5.60	5.88	3.0	0.5	13	1.6	13	17	7.0	11.5	SH
PJESDA6V2-4LCG	5.89	6.20	6.51	4.3	0.5	13	1.6	12	16	7.0	10.0	SJ
PJESDA6V8-4LCG	6.37	6.71	7.04	5	0.5	13	1.6	12	15	6.7	9.5	SL

#### NOTES :

- 1.Non-repetitive current per Figure 1.
- 2.Only 1 diode under power. For all 4 diodes under power,Pd will be 25%.  
Mounted on FR-4 board with min pad.
- 3.Capacitance of one diode at f=1MHz, VR=0V, TA=25°C





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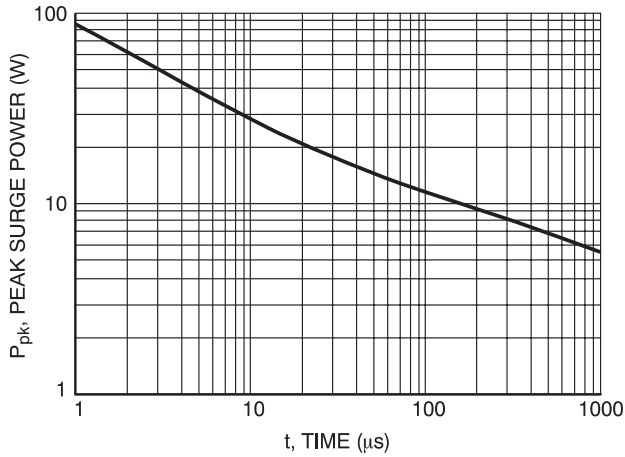


Figure 1. Pulse Width

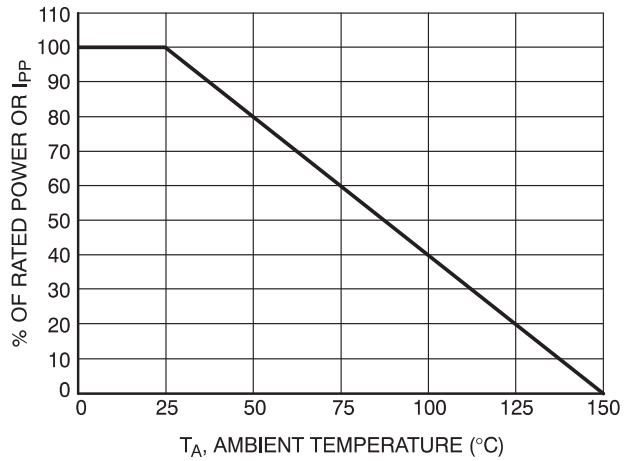


Figure 2. Power Derating Curve

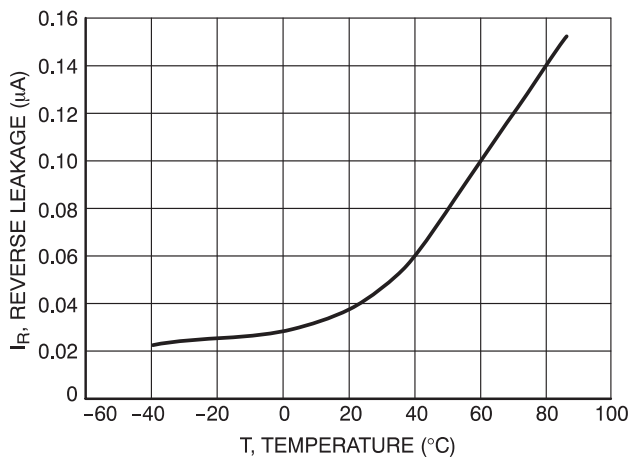


Figure 3. Reverse Leakage versus Temperature

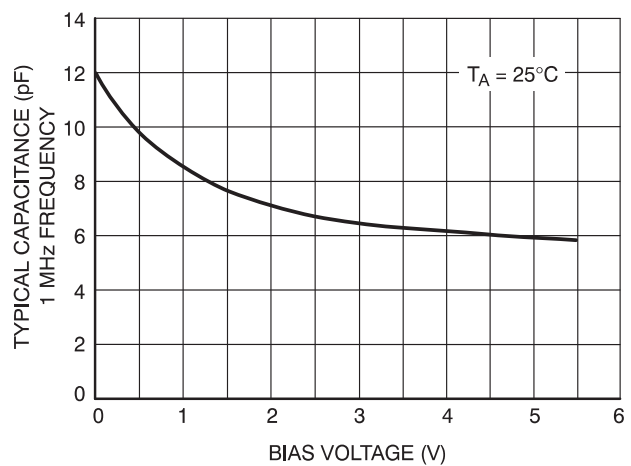


Figure 4. Capacitance

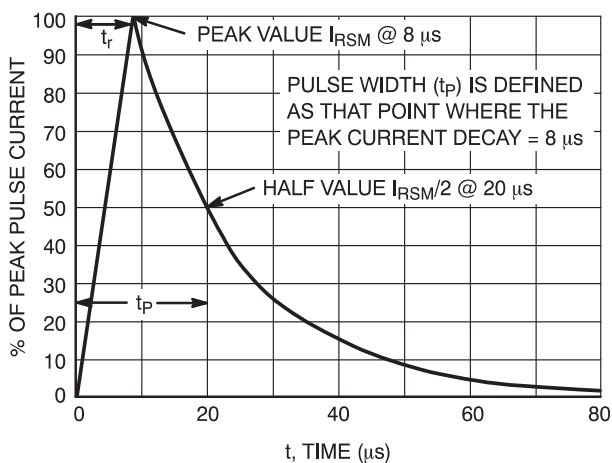


Figure 5. 8  $\times$  20  $\mu$ s Pulse Waveform

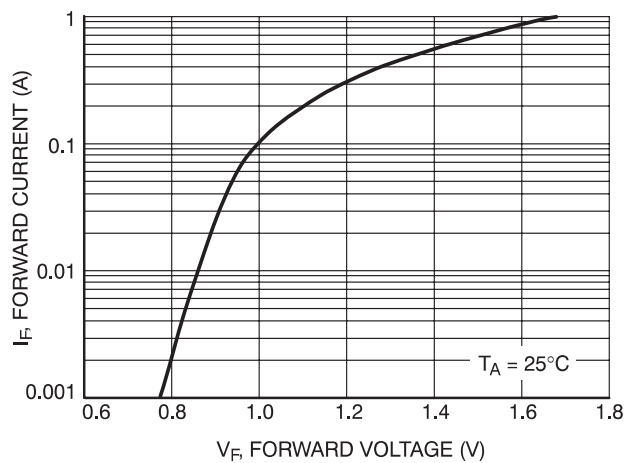
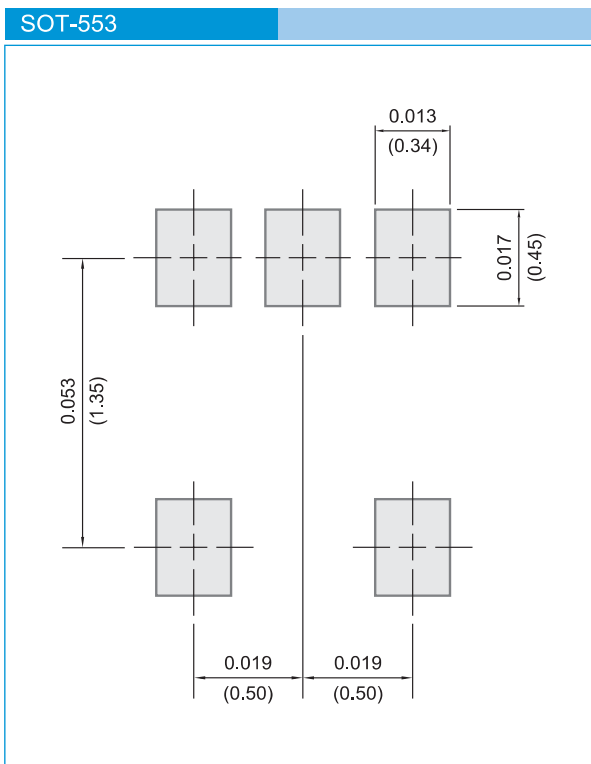


Figure 6. Forward Voltage



## PJESDA5V6-4LCG SERIES

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information

T/R - 4K per 7" plastic Reel

T/R - 10K per 13" plastic Reel

### LEGAL STATEMENT

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