

# PJESDA6V8-5LCG

## LOW CAPACITANCE SOT-563 5-LINE TRANSIENT VOLTAGE SUPPRESSOR ARRAY FOR ESD PROTECTION

### FEATURES

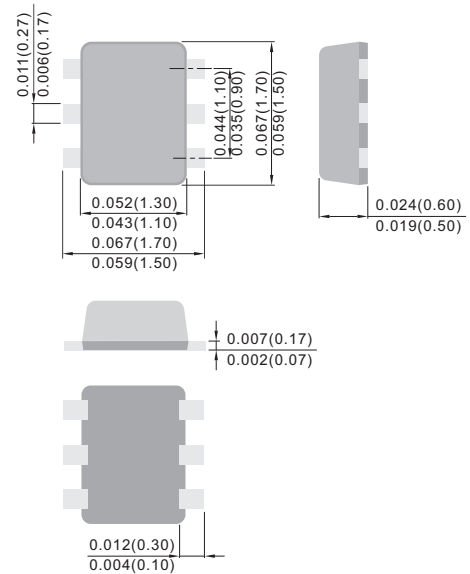
- ESD Protection : IEC61000-4-2 8KV Contact 15KV Air
- Five Separate Unidirectional Configuration for Protection
- Low Leakage Current
- Peak Power Dissipation of 20W@8/20 $\mu$ s
- Low off-state Capacitance
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOT-563, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.0001 ounces, 0.0026 grams
- Mounting Position: Any

### SOT-563

Unit : inch(mm)



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

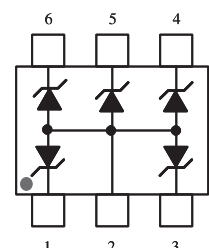
PARAMETER	SYMBOL	VALUE	UNITS
Peak Power Dissipation (8/20 $\mu$ s) (Note 1)	P <sub>PK</sub>	20	W
Peak Pulse Current (8/20 $\mu$ s waveform)	I <sub>PP</sub>	1.6	A
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C
Lead Solder Temperature (10 seconds duration)	T <sub>L</sub>	260	°C

### ELECTRAICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PART NUMBER	BREAKDOWN VOLTAGE V <sub>BR</sub> @1mA(VOLTS)			LEAKAGE CURRENT I <sub>RWM</sub> @V <sub>RWM</sub>		V <sub>C</sub> MAX@I <sub>PP</sub> (8/20 $\mu$ s)		TYP. CAPACITANCE@0V Bias (pF)(Note 2)		TYP. CAPACITANCE@3V Bias (pF)		MARKING CODE
	Min.	Nom.	Max.	I <sub>RWM</sub> ( $\mu$ A)	V <sub>RWM</sub>	V <sub>C</sub> (V)	I <sub>PP</sub> (A)	Typ	Max	Typ	Max	
PJESDA6V8-5LCG	6.37	6.71	7.04	0.5	5	13	1.6	12	15	6.7	9.5	SY

#### NOTES:

- 1.Non-repetitive current per Figure 1.
- 2.Capacitance of one diode at f=1MHz, V<sub>R</sub>=0V, T<sub>A</sub>=25°C



## PJESDA6V8-5LCG

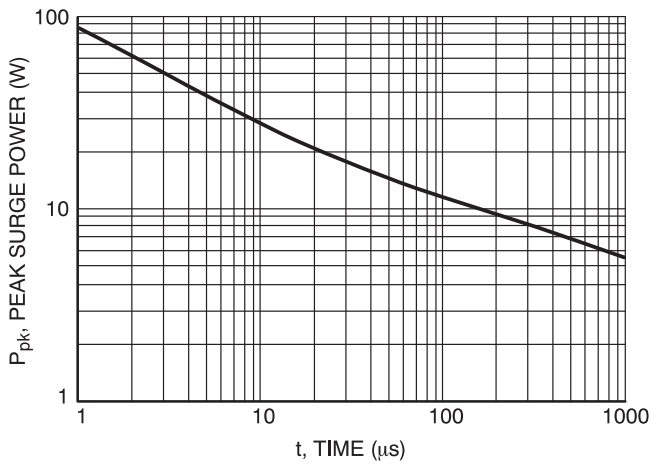


Figure 1. Pulse Width

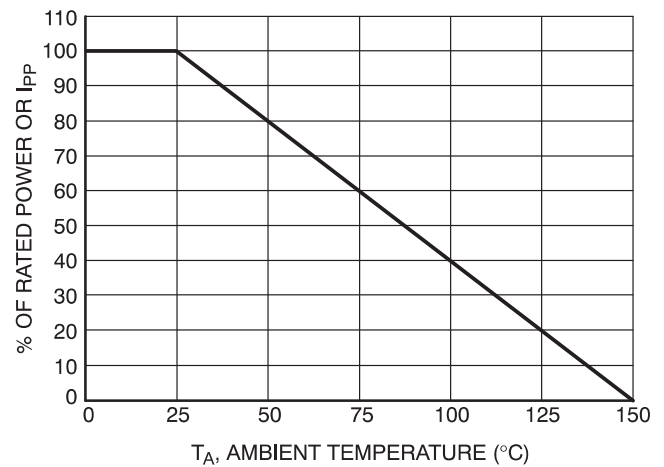


Figure 2. Power Derating Curve

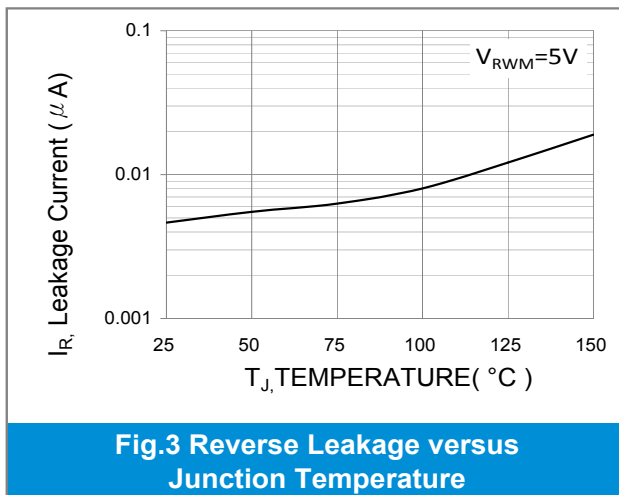


Fig.3 Reverse Leakage versus Junction Temperature

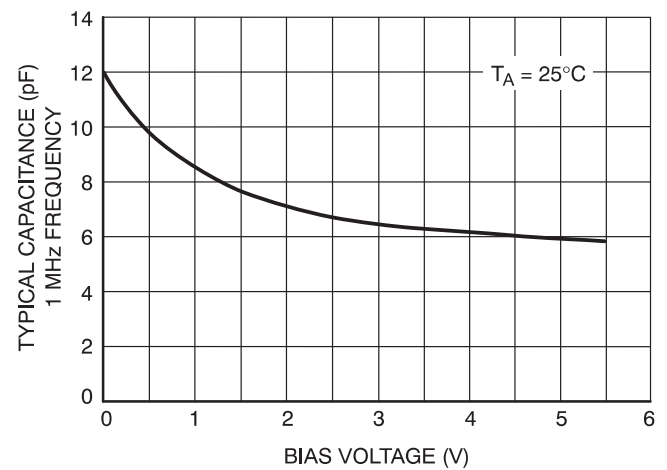


Figure 4. Capacitance

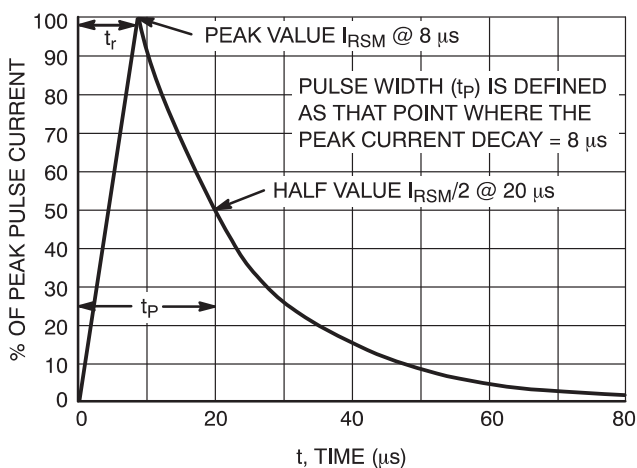
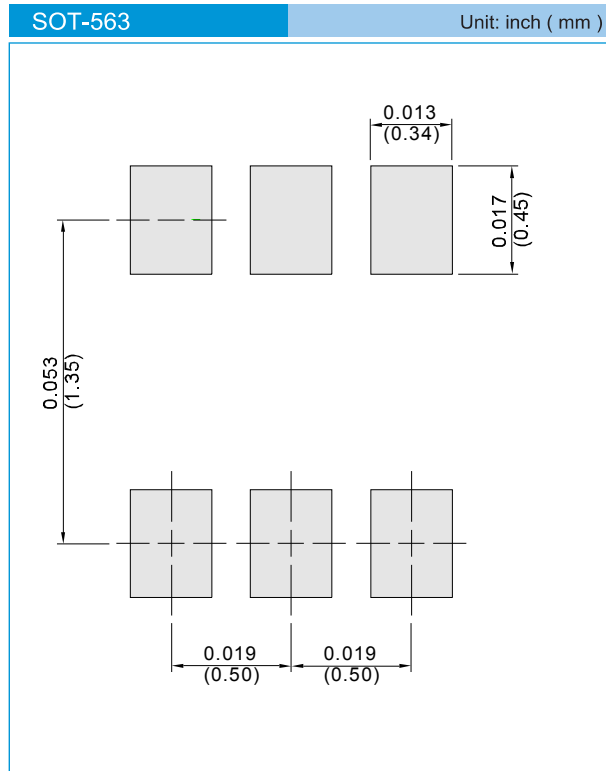


Figure 5.  $8 \times 20 \mu s$  Pulse Waveform

## PJESDA6V8-5LCG

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information

T/R - 4K per 7" plastic Reel

T/R - 10K per 13" plastic Reel

## PJESDA6V8-5LCG

### Part No\_packing code\_Version

PJESDA6V8-5LCG\_R1\_00001

PJESDA6V8-5LCG\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	HF	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	RoHS	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



## **PJESDA6V8-5LCG**

---

### **Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.