



# PJESD5V6LC-2W SERIES

Low capacitance TVS arrays for ESD protection

**VOLTAGE** 3~5 Volts    **POWER** 30 Watts

**SOT-323**    Unit: inch (mm)

## FEATURES

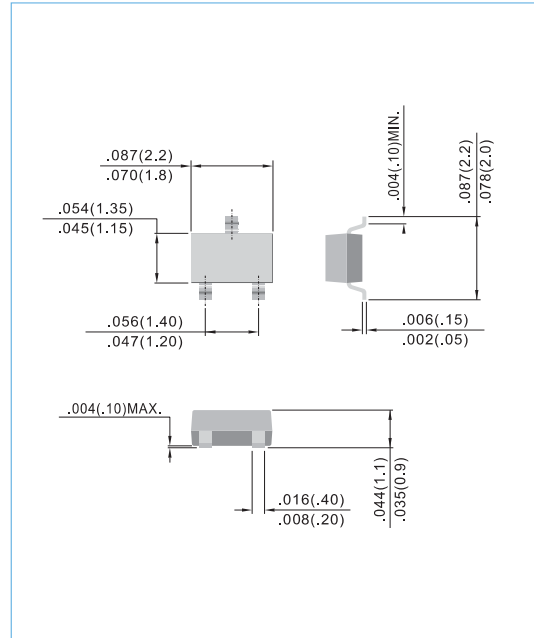
- ESD Passed devices : Air mode 15KV ,human body mode 8KV
- In compliance with EU RoHS 2002/95/EC directives

## MECHANICAL DATA

- Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.005gram

## APPLICATIONS

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

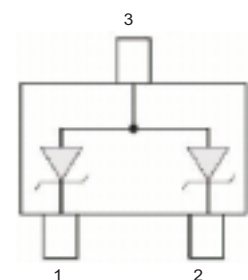


## ABSOLUTE RATINGS (T<sub>A</sub>=25°C)

Parameter		Symbol	Value	Unit
Peak pulse power (8/20μs) <sup>(1)</sup>	T <sub>J</sub> initial=T <sub>amb</sub>	P <sub>PP</sub>	30	W
Junction temperature		T <sub>J</sub>	150	°C
Storage temperature range		T <sub>STG</sub>	-55 to + 150	°C
Maximum lead temperature for soldering during 10s		T <sub>L</sub>	260	°C
Operating temperature range		T <sub>OP</sub>	-40 to + 150	°C

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

Part Number	V <sub>BR</sub> @1mA		I <sub>RM</sub> @V <sub>RM</sub>		C <sub>J</sub> @0V	Marking
	Min	Max	Max	V <sub>RM</sub>	Typ	
	V	V	μA	V	pF	
PJESD5V6LC-2W	5.32	5.88	0.5	3.0	8.0	SAO
PJESD6V2LC-2W	5.89	6.51	0.5	4.3	8.0	SAY
PJESD6V8LC-2W	6.37	7.04	0.5	5.0	8.5	SAZ

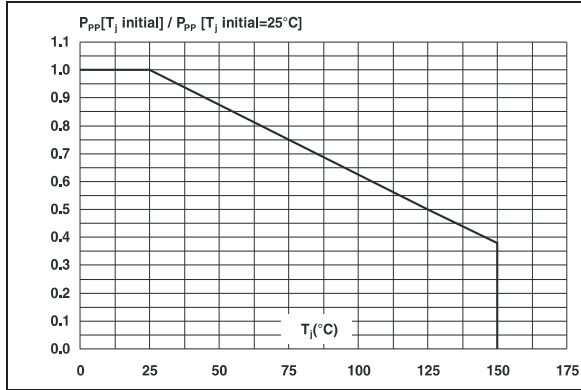


NOTE : 1.For a surge greater than the maximum values, the diode will fail in short-circuit.

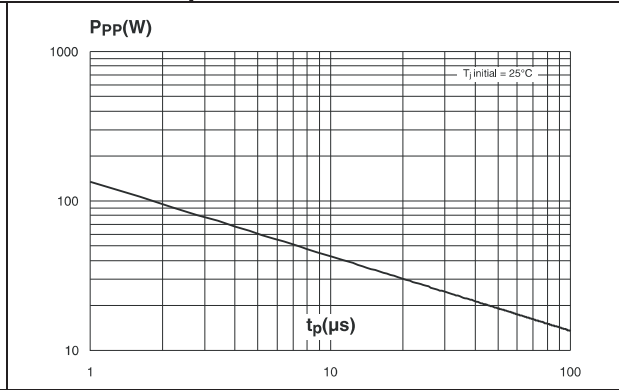


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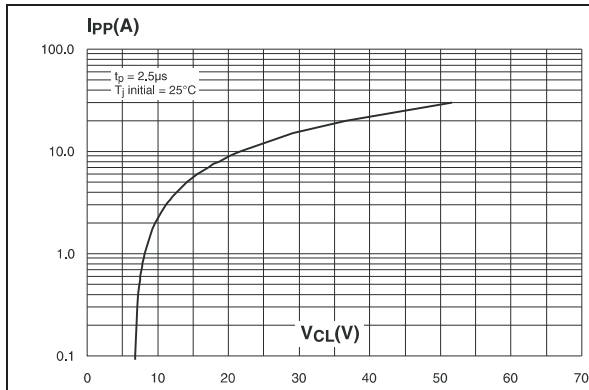
**Figure 1. Peak power dissipation versus initial junction temperature**



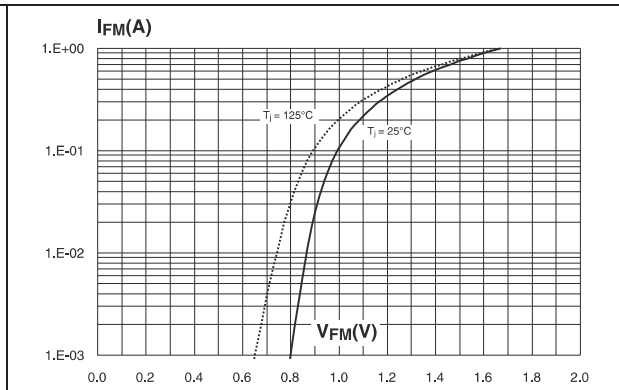
**Figure 2. Peak pulse power versus exponential pulse duration ( $T_j$  initial = 25° C)**



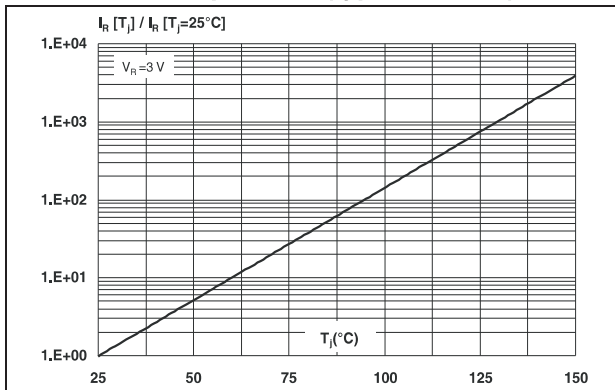
**Figure 3. Clamping voltage versus peak pulse current (typical values, rectangular waveform)**



**Figure 4. Forward voltage drop versus peak forward current (typical values)**



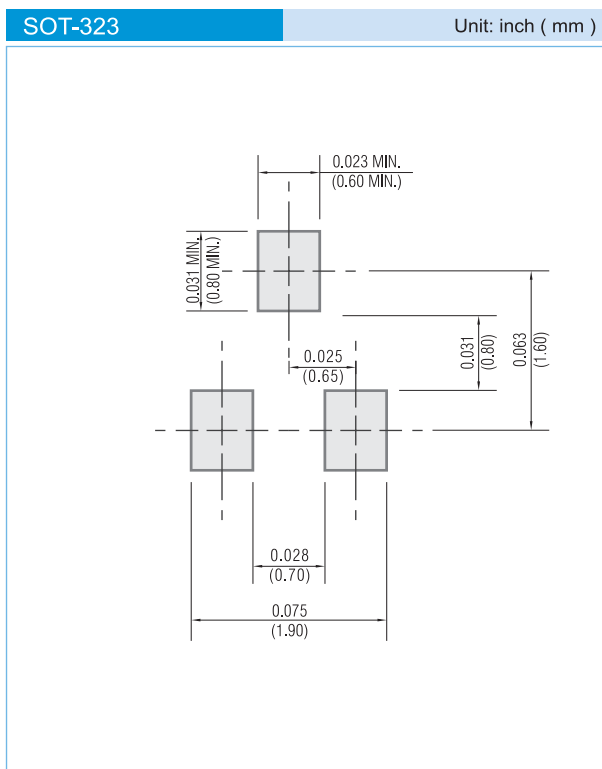
**Figure 5. Relative variation of leakage current versus junction temperature (typical values)**





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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel

## LEGAL STATEMENT

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