



# PJSOT05C-02/PJSOT24C-02

## STANDARD CAPACITANCE TVS ARRAY

**VOLTAGE** 5 / 24 Volts    **POWER** 140 Watts

### FEATURES

- 140 Watts Peak Pulse Power per Line (  $t_p=8/20$  ms)
- Low Clamping Voltage
- Available in Multiple Voltage Types Ranging from 5V
- In compliance with EU RoHS 2002/95/EC directives
- IEC61000-4-2 ESD 15kV air, 8kV Contact compliance

### MECHANICAL DATA

- Case: SOT-23
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounce, 0.0084 gram

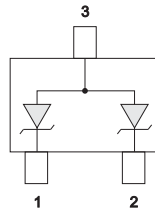
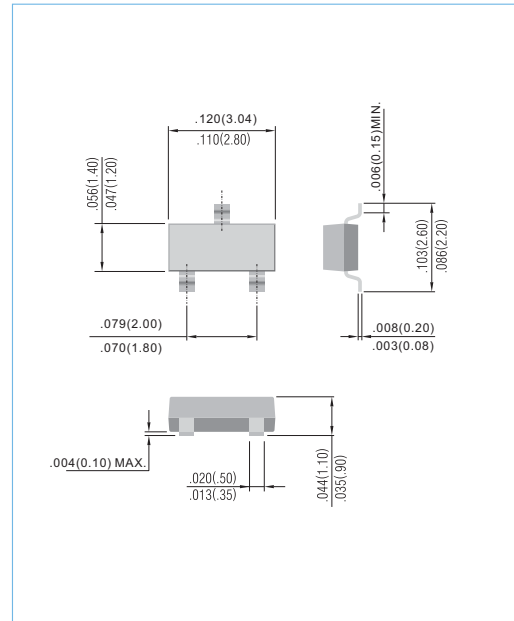


Fig.25

SOT-23    Unit: inch ( mm )



### DEVICE CHARACTERISTICS

Ratings at 25°C unless otherwise specified.

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ( $t_p=8/20$ $\mu$ s)	P <sub>PP</sub>	140	Watts
Operating Temperature	T <sub>J</sub>	-50 to 150	°C
Storage Temperature	T <sub>STG</sub>	-50 to 150	°C
Forward Voltage@ 100mA,300 $\mu$ s-Square Wave	V <sub>F</sub>	1.5	Volts

Part Number	Reverse Stand-off Voltage	Minum Breakdown Voltage	Max Clamping Voltage @ 8/20 $\mu$ sec	Peak Pulse Current 8/20 $\mu$ sec	Maximum Leakage Current	Off-State Capacitance, 1MHz Zero dc Bias	Marking Code
	V <sub>RWM</sub> Max. V	@1mA V <sub>BR</sub> V	V <sub>CL</sub> @ I <sub>PP</sub> V	I <sub>PP</sub> Max. A	@V <sub>RWM</sub> I <sub>D</sub> $\mu$ A	C <sub>d</sub> Max. pF	
PJSOT05C-02	5	6	11.2	13	20	120	2BC
PJSOT24C-02	24	26.7	47.2	3	20	30	6BC

PAN JIT RESERVES THE RIGHT TO CHANGE THE SPECIFICATION ANY TIME WITHOUT NOTICE IN ORDER TO IMPROVE THE DESIGN AND SUPPLY THE BEST POSSIBLE PRODUCT.



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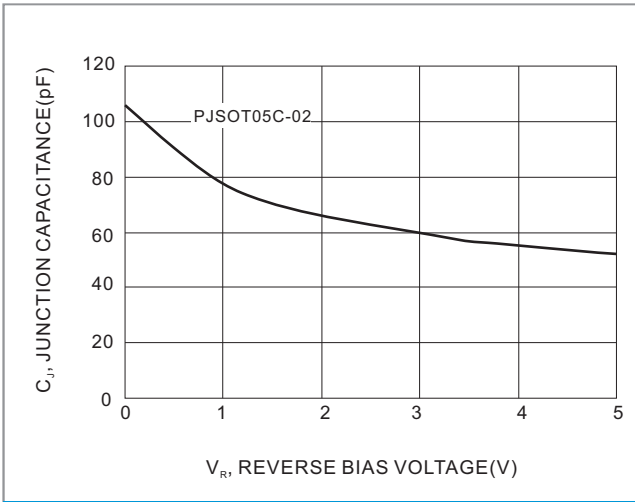


FIG.1- TYPICAL CAPACITANCE UNDER BIAS

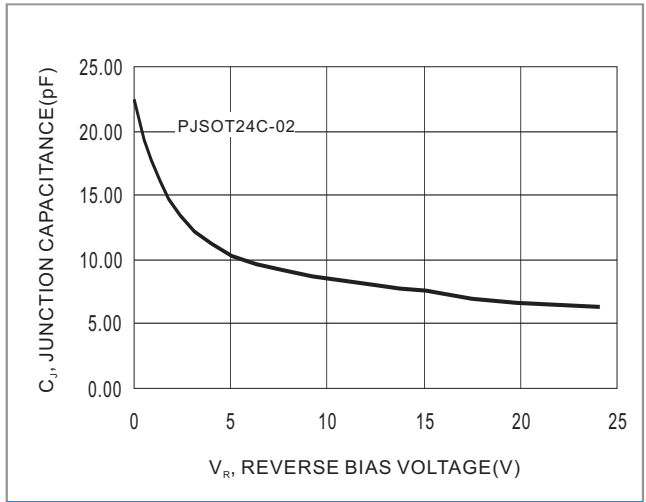


FIG.2- TYPICAL CAPACITANCE UNDER BIAS

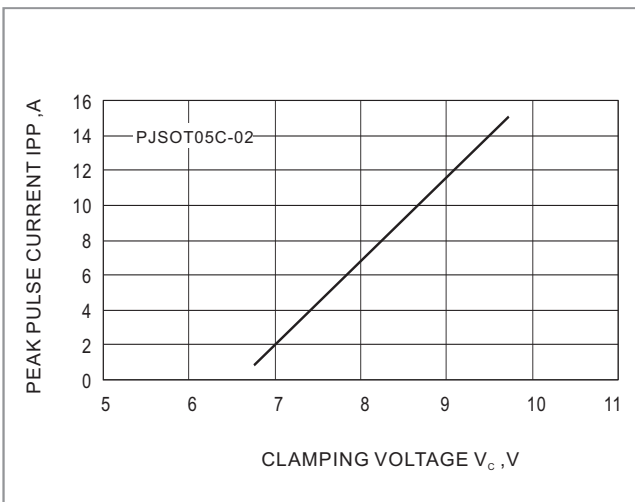


FIG.3- TYPICAL CLAMPING VOLTAGE

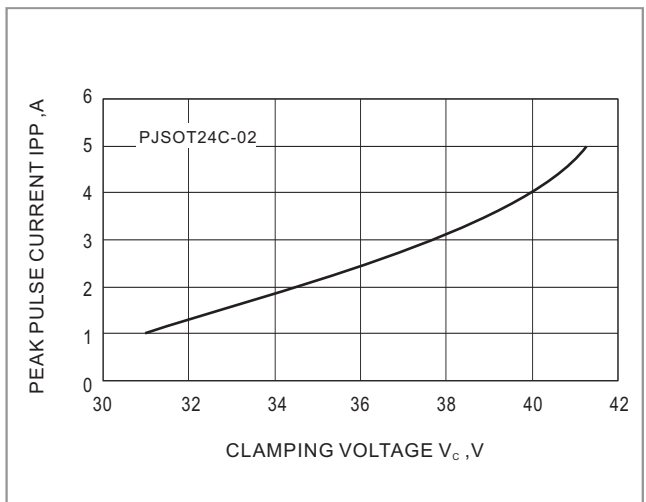


FIG.4- TYPICAL CLAMPING VOLTAGE

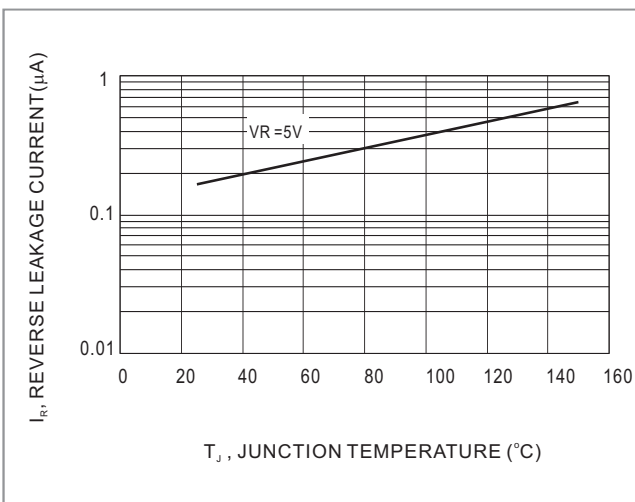


FIG.5- TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

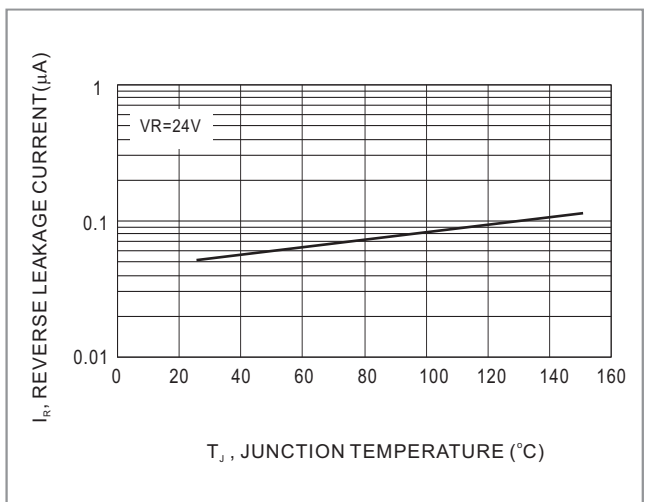
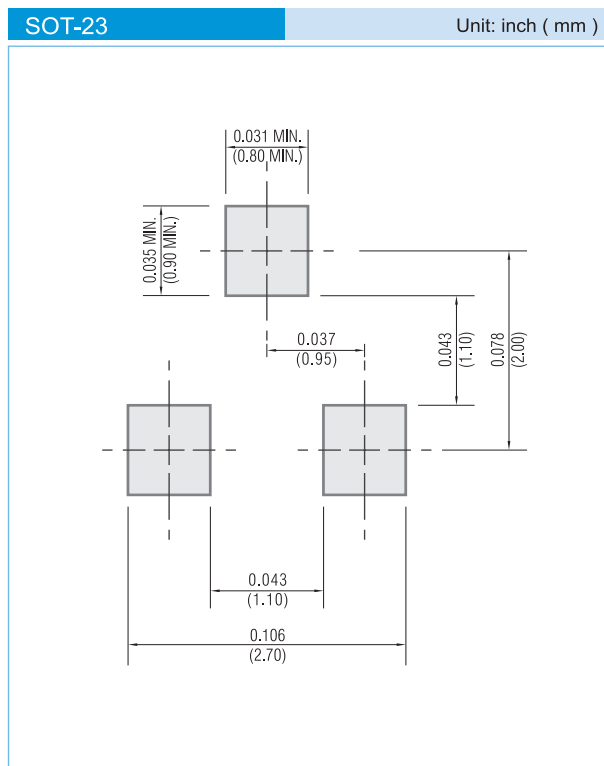


FIG.6- TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE



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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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