



# PJSOT05C-02 / PJSOT24C-02

## STANDARD CAPACITANCE TVS ARRAY

**VOLTAGE** 5 / 24 Volt    **POWER** 140 Watt

### FEATURES

- 140 Watts Peak Pulse Power per Line (tp=8/20 ms)
- Low Clamping Voltage
- Available in Multiple Voltage Types Ranging from 5V
- IEC61000-4-2 ESD 15kV air, 8kV Contact compliance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

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

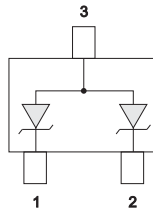
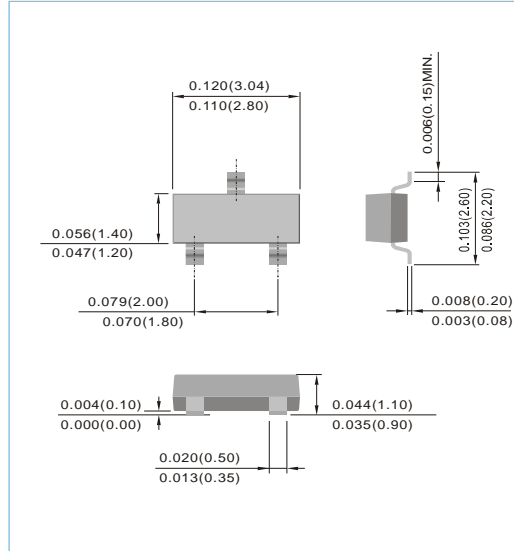


Fig.25

**SOT-23**    Unit : inch(mm)



## DEVICE CHARACTERISTICS

Ratings at 25°C unless otherwise specified.

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs)	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, 300μs-Square Wave	V <sub>F</sub>	1.5	Volts

Part Number	Reverse Stand-off Voltage	Minum Breakdown Voltage	Max Clamping Voltage @ 8/20 μsec	Peak Pulse Current 8/20 μsec	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> μA	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



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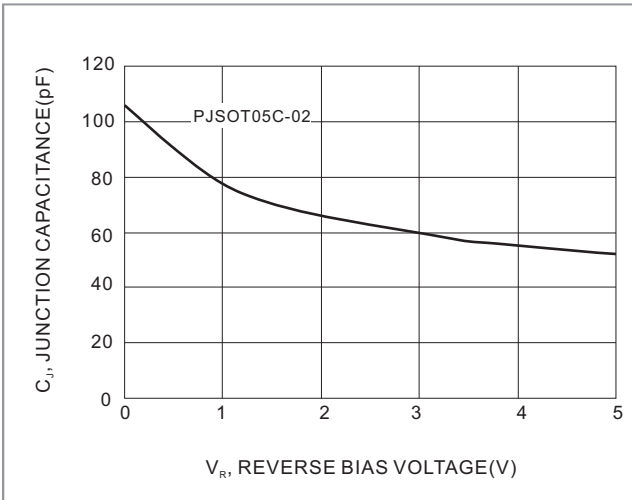


FIG.1- TYPICAL CAPACITANCE UNDER BIAS

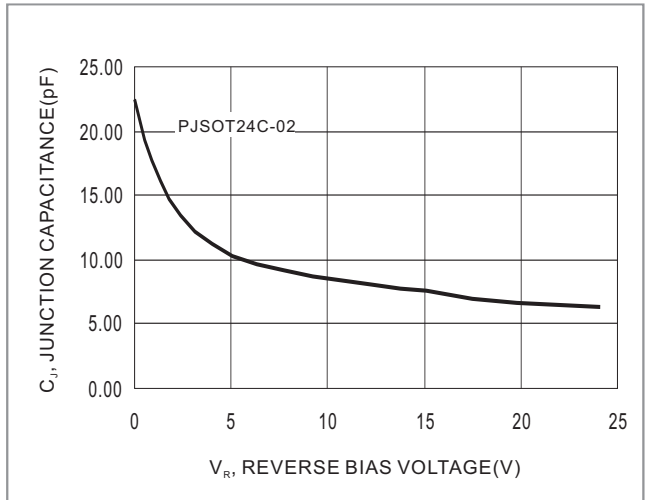


FIG.2- TYPICAL CAPACITANCE UNDER BIAS

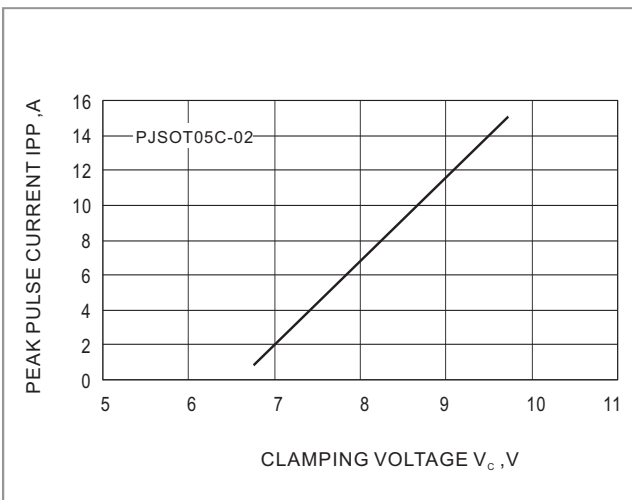


FIG.3- TYPICAL CLAMPING VOLTAGE

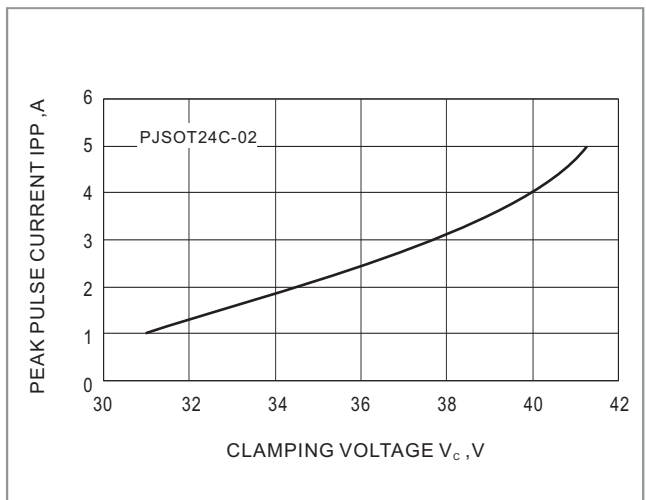


FIG.4- TYPICAL CLAMPING VOLTAGE

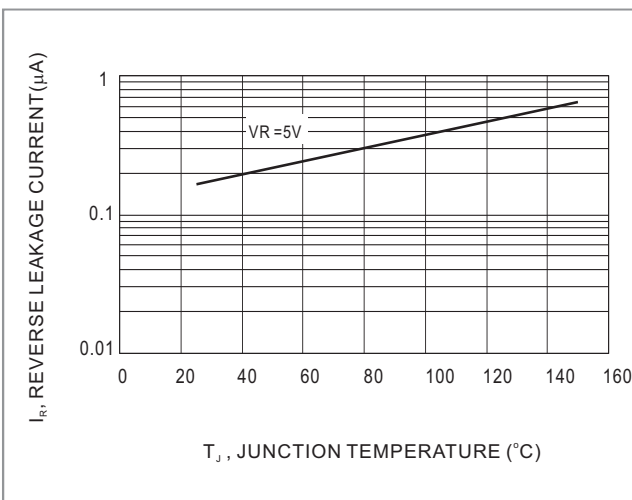


FIG.5- TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

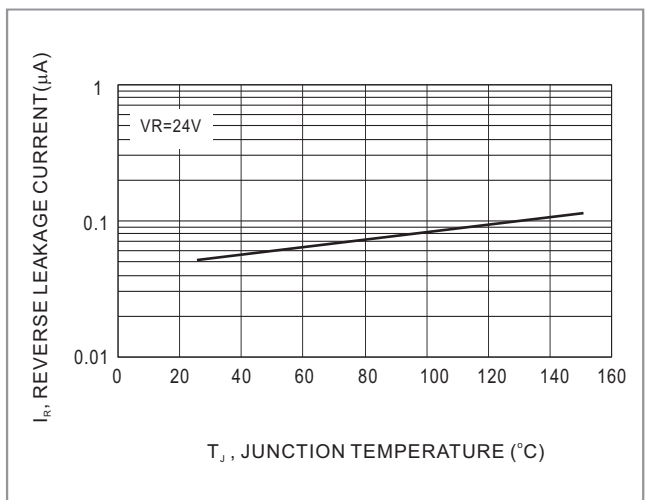


FIG.6- TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

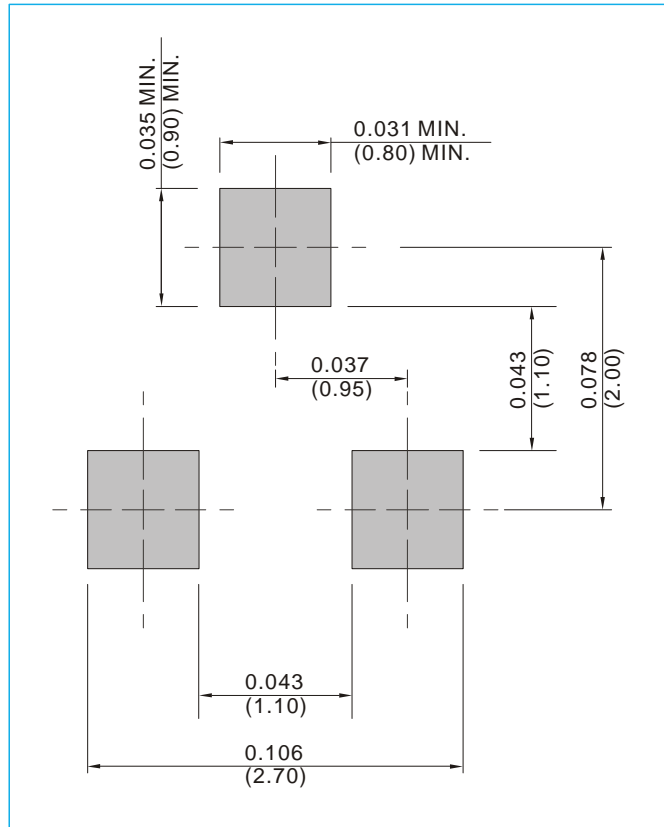


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## MOUNTING PAD LAYOUT

**SOT-23**

Unit : inch(mm)



## ORDER INFORMATION

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



# PJSOT05C-02 / PJSOT24C-02

## Part No\_packing code\_Version

PJSOT05C-02\_R1\_00001

PJSOT05C-02\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



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>			



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