

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

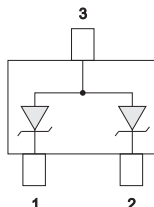
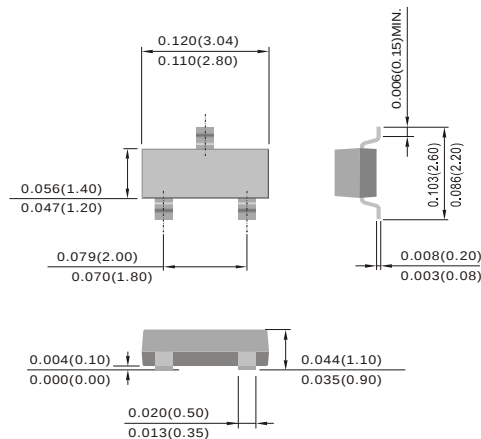


Fig.25

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 _{PP}	140	Watts
Operating Temperature	T _J	-50 to 150	°C
Storage Temperature	T _{STG}	-50 to 150	°C
Forward Voltage@100mA, 300μs-Square Wave	V _F	1.5	Volts

Part Number	Reverse Stand-off Voltage	Minmum 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 _{RWM}	@1mA V _{BR}	V _{CL} @ I _{PP}	I _{PP}	@V _{RWM} I _D	C _d	
	Max. V	V	V	Max. A	μA	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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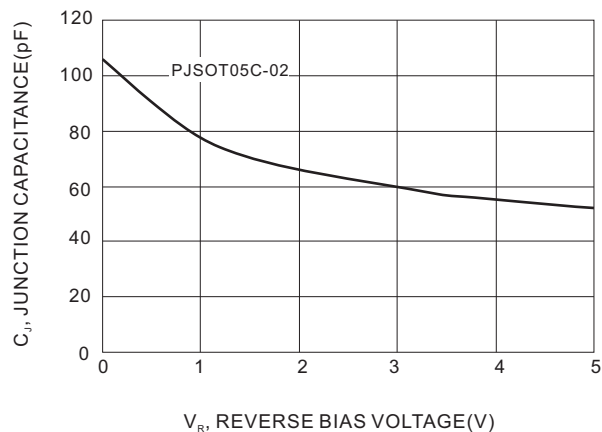


FIG. 1- TYPICAL CAPACITANCE UNDER BIAS

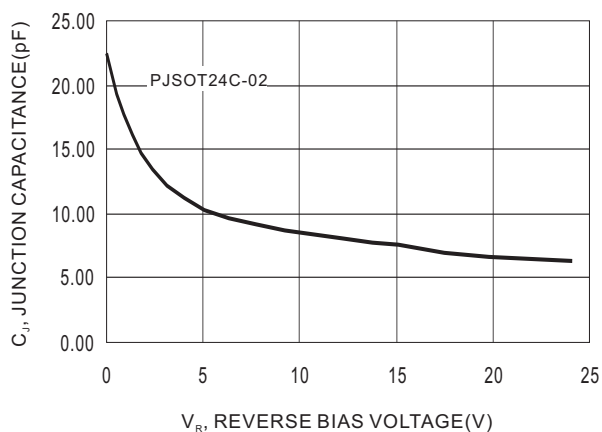


FIG. 2- TYPICAL CAPACITANCE UNDER BIAS

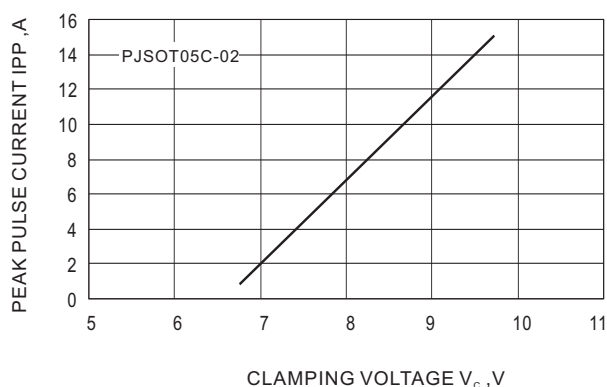


FIG. 3- TYPICAL CLAMPING VOLTAGE

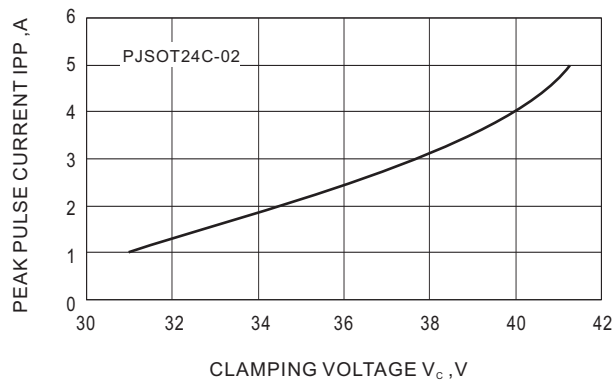


FIG. 4- TYPICAL CLAMPING VOLTAGE

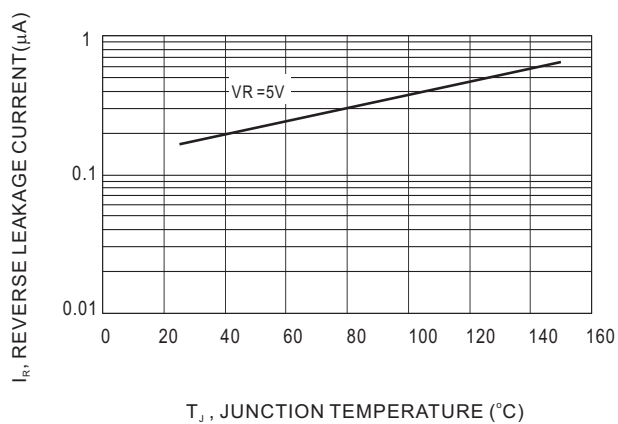


FIG. 5- TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

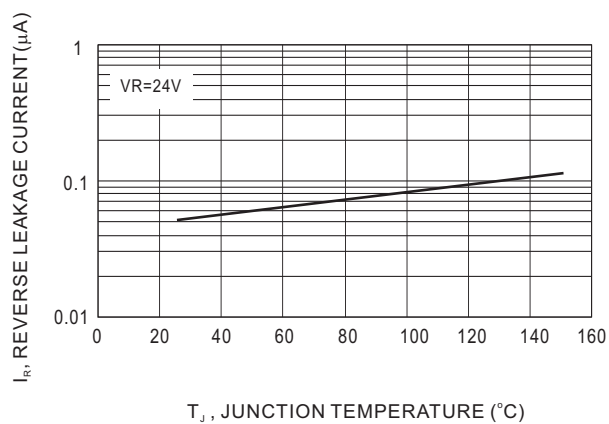


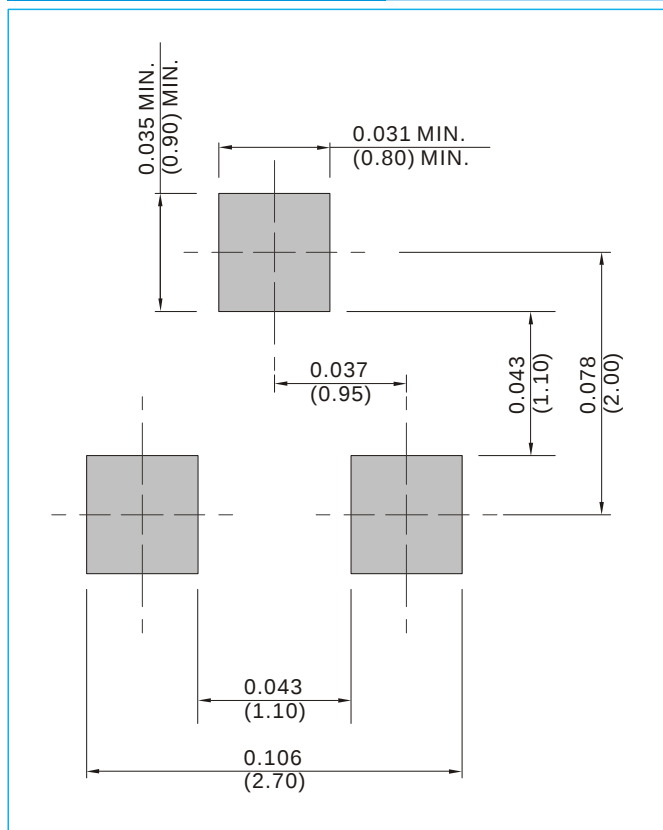
FIG. 6- TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

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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

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Part No_packing code_Version

PJSOT05C-02_R1_00001

PJSOT05C-02_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 XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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