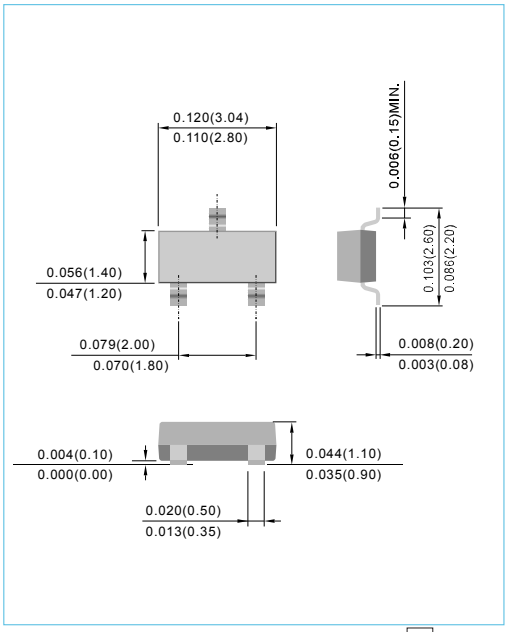
PJDLC05C-02

VOLTAGE 5.0 Volts **POWER** 200 Watts

SOT-23 Unit : inch(mm)



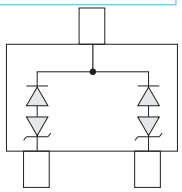


Fig.21

ULTRA LOW CAPACITANCE DUAL TRANSIET VOLTAGE SUPPRESSOR FOR HIGH SPEED DATA LINES

This transient overvoltage suppressor is intended to protect sensitive equipment against electrostatic discharge events as well to offer a minimum insertion loss in data transmission lines in communications ports used in portable consumer, computing and networking applications. This dual transient voltage suppressor comes in a single SOT-23, offering board space reduction, where the application requires it.

This device comes with two pairs of high speed switching diodes connected in series, where both pairs are electrically isolated, offering a very low capacitance, minimizing the insertion losses in data transmission lines.

FEATURES

- Maximum capacitance @ 0 Vdc Bias of 1.0 pF between terminals 1-3 or terminals 2-3
- IEC61000-4-2 esd 15kV Air, 8kV contact compliance
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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

MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNITS
Operating Junction	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

PJDLC05C-02						
PARAMETER	SYMBOL	CONDITIONS	Min.	Typ.	Max.	UNITS
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	I_T=1mA	6	-	-	V
Reverse Leakage Current	I_R	V_{RWM} = 5V, T = 25°C	-	-	20	µA
Junction Capacitance	C_J	Between pin1.2 to 3 V_R=0V,f=1MHz	-	-	1.0	pF
Peak Pulse Current	I_{PP}	t_P=8/20 µsec	-	-	10	A
Max Clamping Voltage	V_C	t_P=8/20 µsec	-	-	20.5	V

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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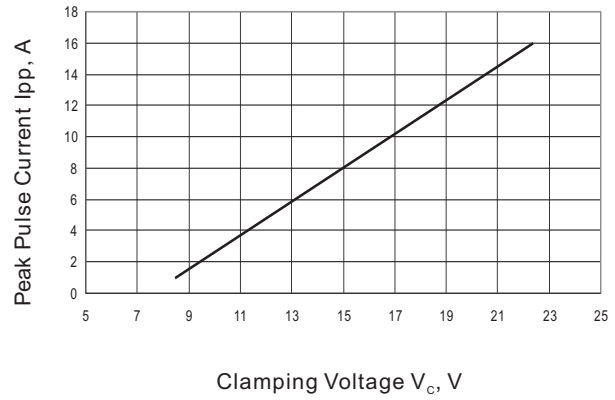


FIG.1- TYPICAL CLAMPING VOLTAGE

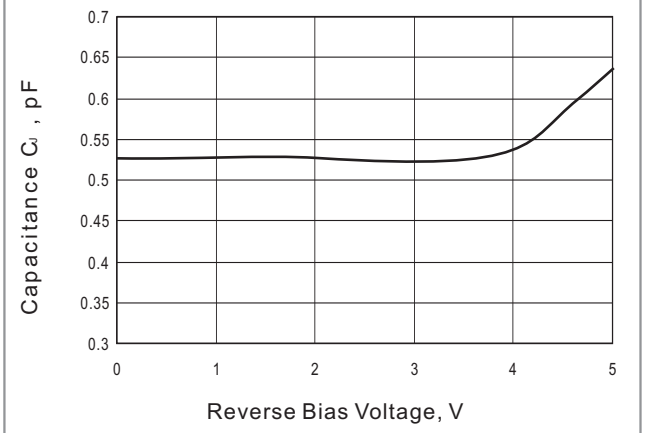


FIG.2- TYPICAL JUNCTION CAPACITANCE UNDER BIAS

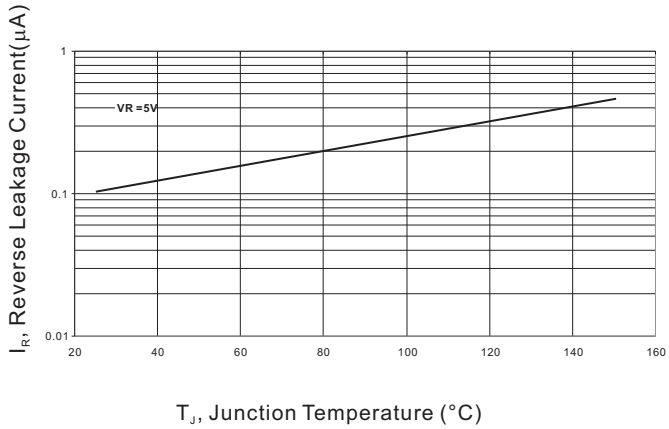
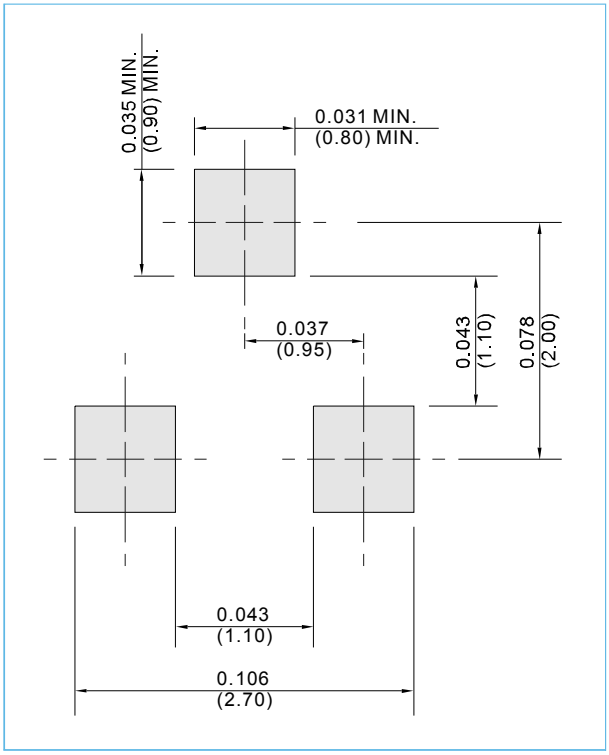


FIG.3- TYPICAL LEAKAGE CURRENT JUNCTION TEMPERATURE

PJDLC05C-02

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

PJDLC05C-02

Part No_packing code_Version

PJDLC05C-02_R1_00001
PJDLC05C-02_R2_00001

For example :

RB500V-40_R2_00001

- RB500V-40 — Part No.
- R2 — Packing type means T/R
- 2 — Packing size code means 13"
- 0 — Version code means HF
- 0001 — Serial number

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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