



PJDLC05C-03

VOLTAGE	5.0 Volts	POWER	250 Watts
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ULTRA LOW CAPACITANCE DUAL TRANSISTOR 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 ounces, 0.0084 grams
- Marking : DBA

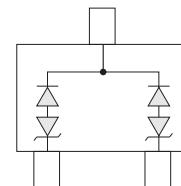
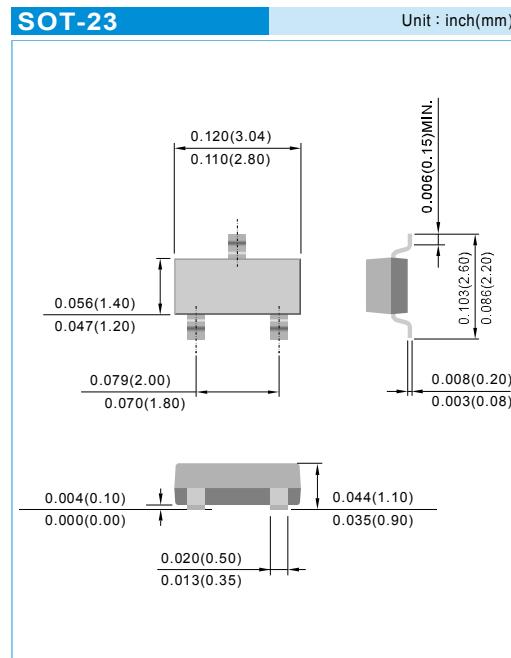


Fig.21

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

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Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units	
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	5	V	
Reverse Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$	6	-	-	V	
Reverse Leakage Current	I_R	$V_{RWM} = 5\text{V}$, $T = 25^\circ\text{C}$	-	-	20	μA	
Junction Capacitance	C_J	Between pin1.2 to 3 $V_R = 0\text{V}, f = 1\text{MHz}$	-	-	1.0	pF	
Peak Pulse Current	I_{PP}	$t_p = 8/20 \mu\text{sec}$	-	-	12	A	
Max Clamping Voltage	V_C	$t_p = 8/20 \mu\text{sec}$	-	-	22	V	



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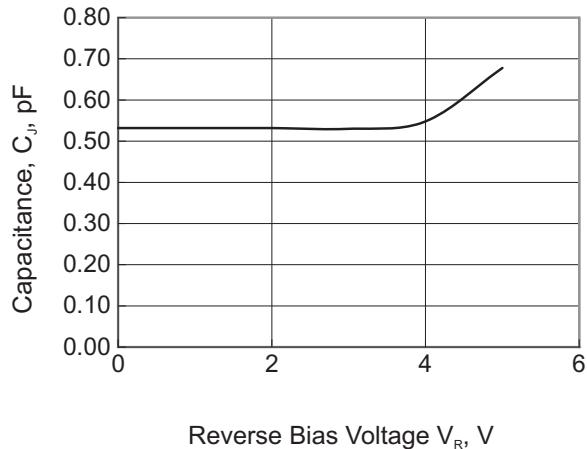


Fig.1 TYPICAL CAPACITANCE

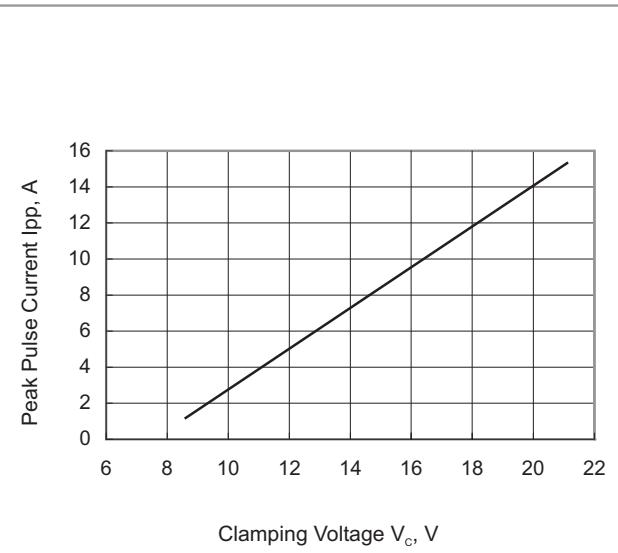


Fig.2 PULSE WAVE FORM

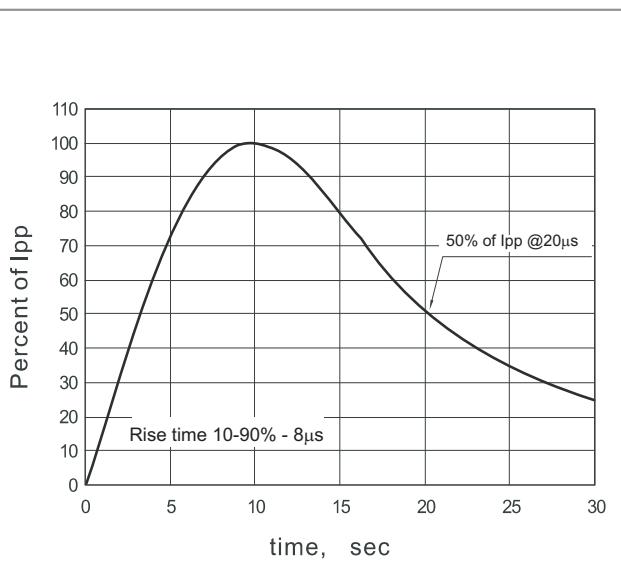
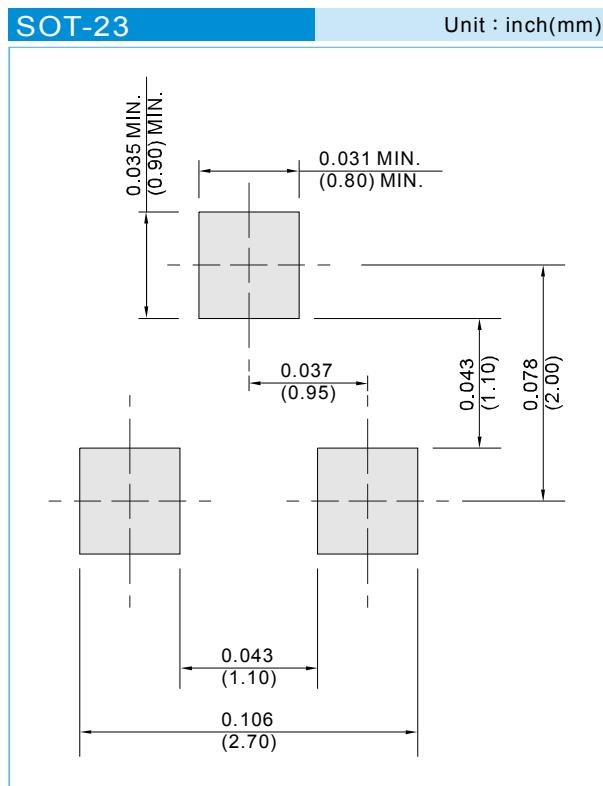


Fig.3 PULSE WAVE FORM



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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



PJDL05C-03

Part No_packing code_Version

PJDL05C-03_R1_00001

PJDL05C-03_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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