

5 Volts

VOLTAGE

POWER

250 Watts

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.

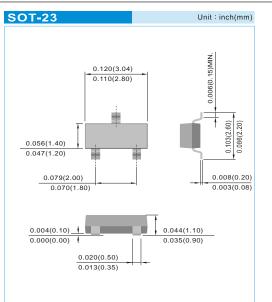
This device comes with two pairs of high speed switching diodes connected in series, where both pairs are electrically isolated, offering a very low capacitance, minimizing the insertion losses in data transmission lines.

FEATURES

- Maximum capacitance @ 0 Vdc Bias of 1pF between terminals 1-3 or terminals 2-3
- IEC61000-4-2 esd 15kV Air, 8kV contact compliance
- Lead free in comply with EU RoHS 2011/65/EU 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, 0.008 grams
- Marking: DBA



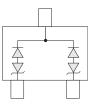


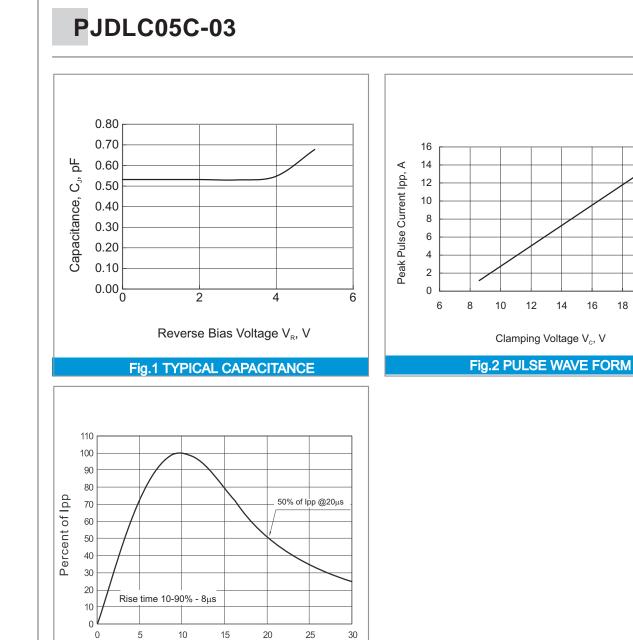
Fig.21

MAXIMUM RATINGS

Parameter		Value	Units	
Operating Junction	TJ	-55 to +150	°C	
Storage Temperature Range	Тѕтс	-55 to +150	°C	

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	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	μΑ
Junction Capacitance	CJ	Between pin1.2 to 3 V _R =0V,f=1MHz	-	-	1	pF
Peak Pulse Current	I _{PP}	t _P =8/20 μsec	-	-	12	А
Max Clamping Voltage	V _c	t _P =8/20 μsec	-	-	22	V



time, sec Fig.3 PULSE WAVE FORM

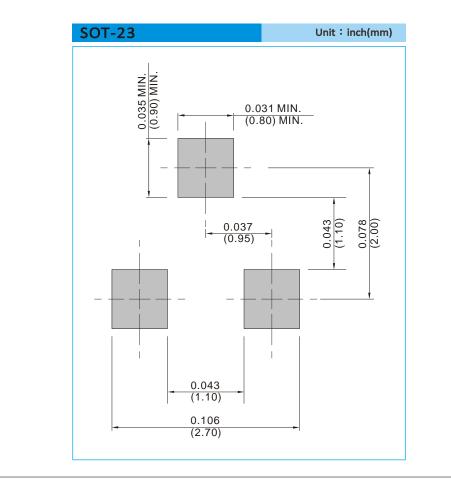
18

20

22



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



Part No_packing code_Version

PJDLC05C-03_R1_00001 PJDLC05C-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)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	т	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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