



PJSD03LCTM

BI-DIRECTIONAL ESD PROTECTION DIODE

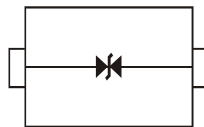
This bi-directional TVS has been designed to protect sensitive equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating at 3.3Vdc and below. This offers an integrated solution to protect a single data line where the board space is a premium.

SPECIFICATION FEATURES

- 50W Power Dissipation (8/20µs Waveform)
- Low Leakage Current, Maximum of 2.5µA@3.3Vdc
- Very low Clamping voltage
- IEC 61000-4-2 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)
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00002 ounces, 0.0005grams
- Case : SOD-923, Plastic
- Marking : O

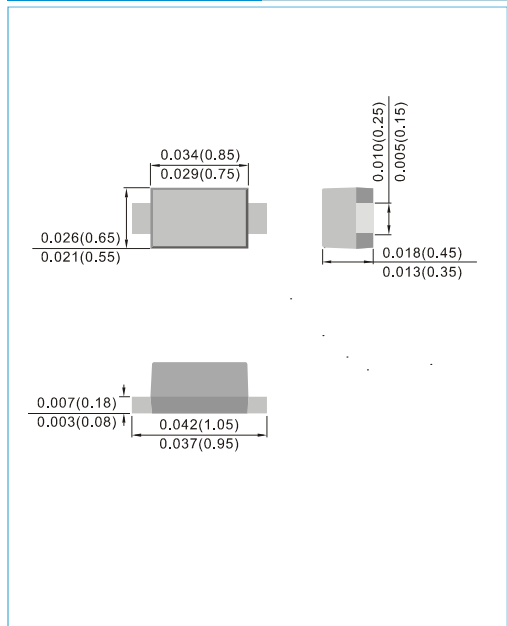
APPLICATIONS

- Video I/O ports protection
- Set Top Boxes
- Portable Instrumentation



SOD-923

Unit : inch(mm)



MAXIMUM RATINGS (TA=25°C unless otherwise noted)

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power (8/20 µs Waveform)	PP _P	50	W
Peak Pulse Current (8/20 µs Waveform)	I _{PPM}	3	A
IEC61000-4-2 Contact	V _{ESD}	±8	kV
IEC61000-4-2 Air	V _{ESD}	±15	kV
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}		-	-	3.3	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	5.4	-	7.0	V
Reverse Leakage Current	I _R	V _R =3.3V	-	-	2.5	µA
Clamping Voltage (8/20ms)	V _C	I _{PP} =3A	-	14	16.6	V
Off State Junction Capacitance	C _J	0 Vdc Bias f=1MHz	-	13	-	pF



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CHARACTERISTIC CURVES

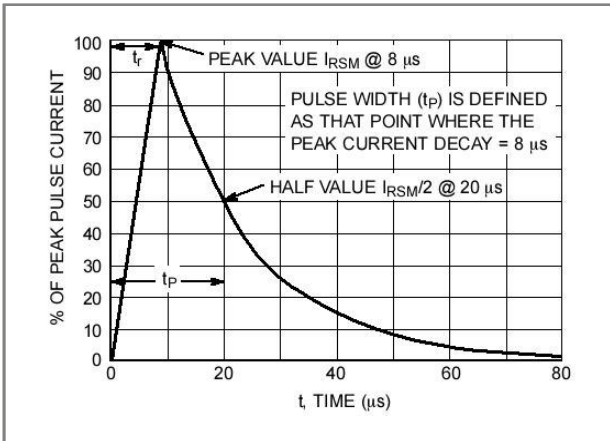


Fig.1 8X20us Pulse Waveform

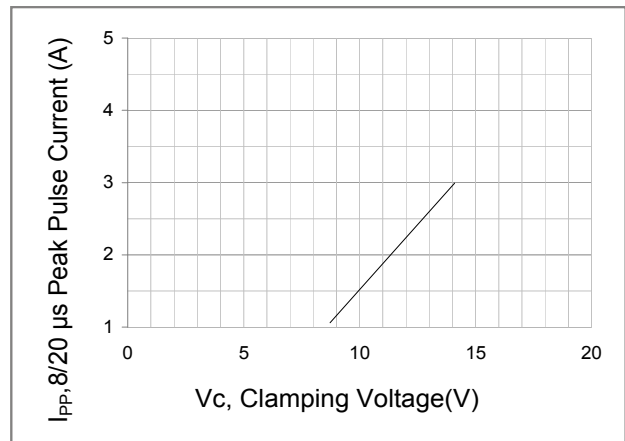


Fig.2 Typical Peak Clamping Voltage

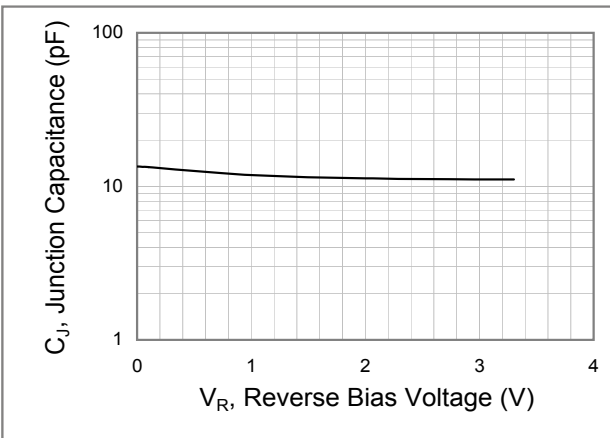


Fig.3 Typical Junction Capacitance

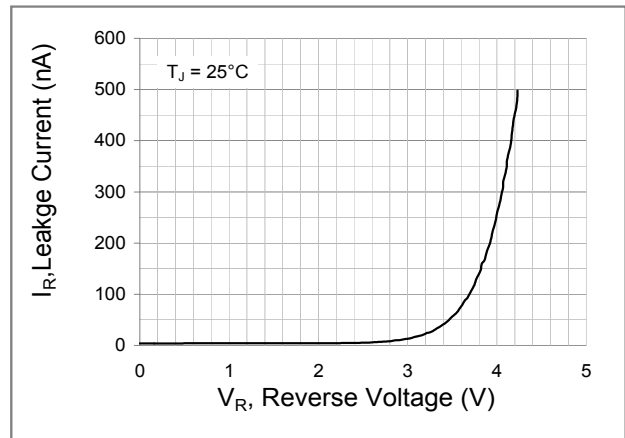


Fig.4 Typical Reverse Characteristics

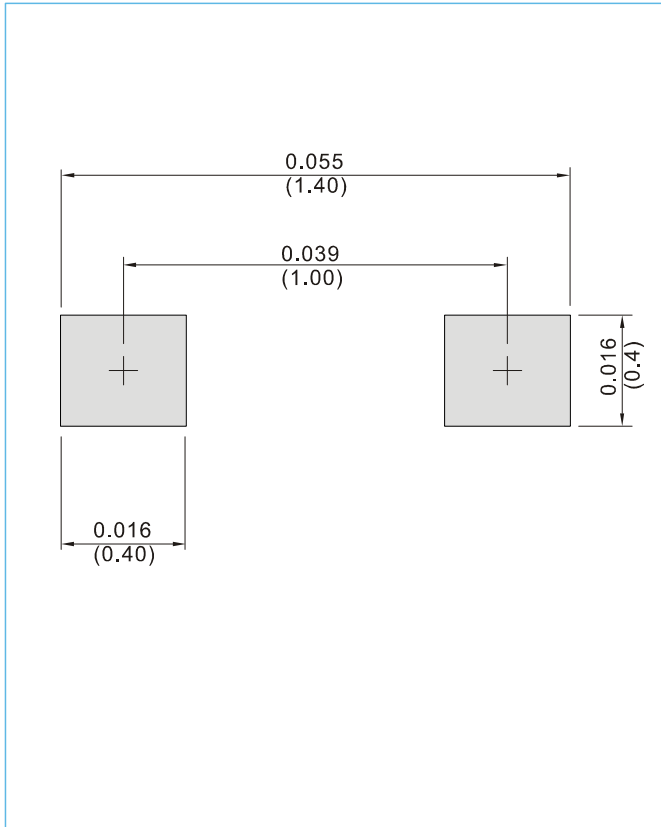


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MOUNTING PAD LAYOUT

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Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 8K per 7" plastic Reel



PJSD03LCTM

Part No_packing code_Version

PJSD03LCTM_R1_00001

For example :

RB500V-40_R2_00001



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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