



PJSD05LCTM-AU

BI-DIRECTIONAL ESD PROTECTION DIODE

This Penta has been designed to Protect Sensitive Equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating at 5Vdc and below. This offers an integrated solution to protect up to data line where the board space is a premium.

SPECIFICATION FEATURES

- 25W Power Dissipation (8/20µs Waveform)
- Low Leakage Current, Maximum of 1µA@5Vdc
- 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)
- Acquire quality system certificate : TS16949
- Manufactured in accordance with AECQ101

APPLICATIONS

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

MECHANICAL DATA

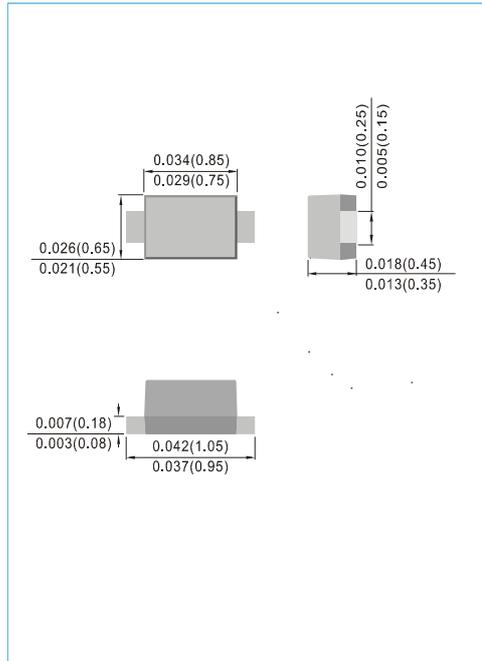
- Case : SOD-923, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.00002 ounces, 0.0005 grams.
- Marking : X



Fig.138(TOP VIEW)

SOD-923

Unit : inch(mm)



MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power (8/20 µs Waveform)	P _{PP}	25	W
Peak Pulse Current (8/20 µs Waveform)	I _{PP}	2	A
ESD Voltage (HBM)	V _{ESD}	>25	kV
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

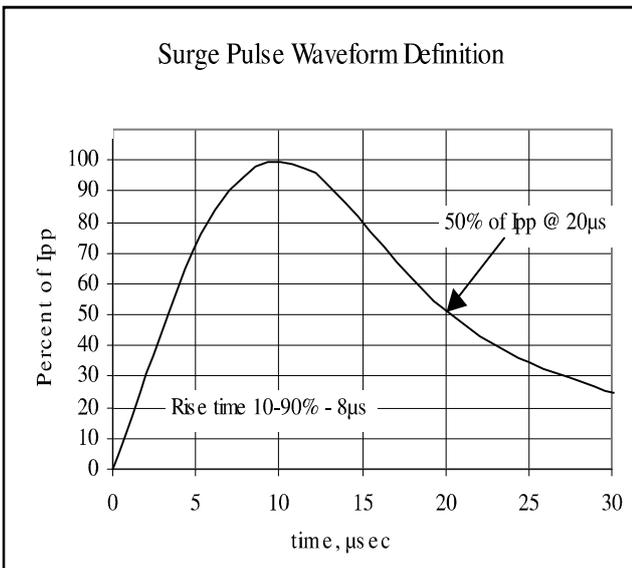
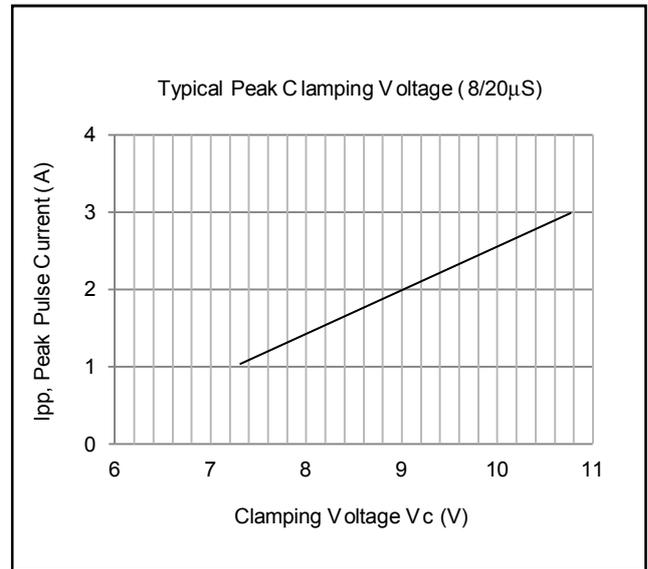
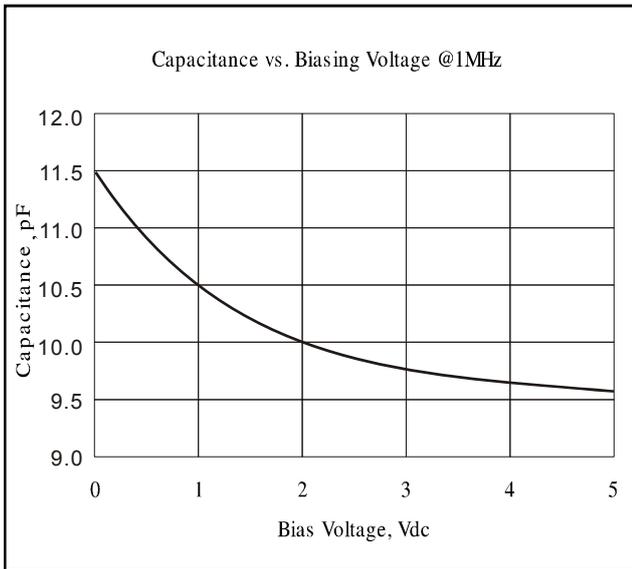
ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage	V _{WRM}		-	-	5.0	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	5.78	-	7.82	V
Reverse Leakage Current	I _R	V _R =5V	-	-	1.0	µA
Clamping Voltage (8/20µs)	V _C	I _{PP} =2A	-	-	12.5	V
Off State Junction Capacitance	C _J	0 Vdc Bias f=1MHz	-	-	15	pF



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TYPICAL CHARACTERISTICS



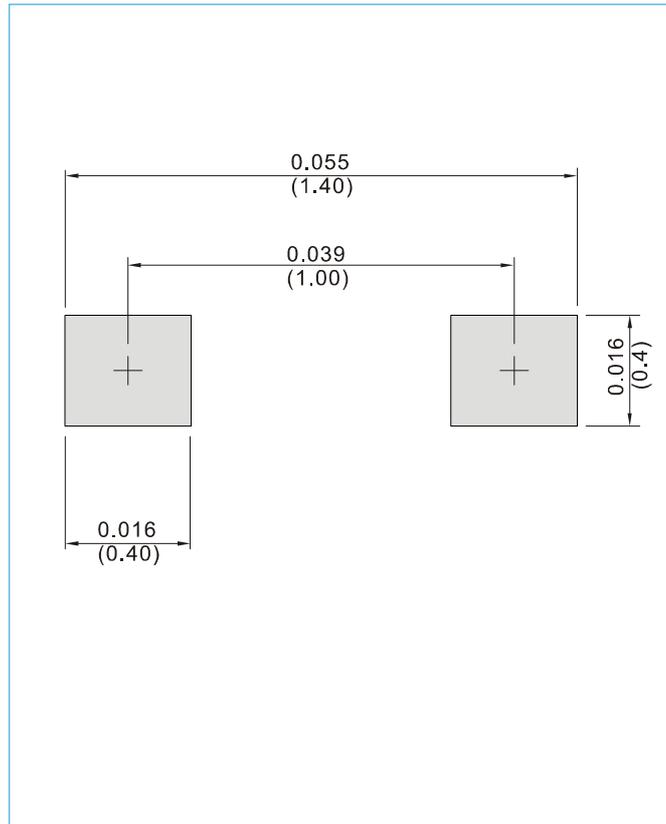


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MOUNTING PAD LAYOUT

SOD-923

Unit : inch(mm)



ORDER INFORMATION

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



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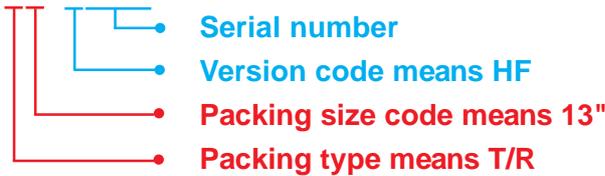
Part No_packing code_Version

PJSD05LCTM-AU_R1_000A1

For example :

RB500V-40_R2_00001

Part No.



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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