



BI-DIRECTIONAL ESD PROTECTION DIODE

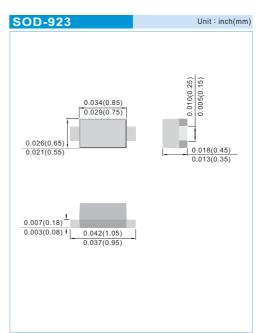
This Penta has been designed to Protect Sensitive Equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating at 5Vdc and below. This offers an integrated solution to protect up to data line where the board space is a premium.

SPECIFICATION FEATURES

- 100W Power Dippsipation (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)

APPLICATIONS

- Video I/O ports protection
- Set Top Boxes
- · Portable Instrumentation
- · Case: SOD-923, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.00002 ounces, 0.0005 grams
- · Marking : H



MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power (8/20 μs Waveform)	Ррр	100	W
Maximum Peak Pulse Current (8/20 μs Waveform)	I PP	5.0	А
ESD Voltage (HBM)	V _{ESD}	>25	kV
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 to 125	°C

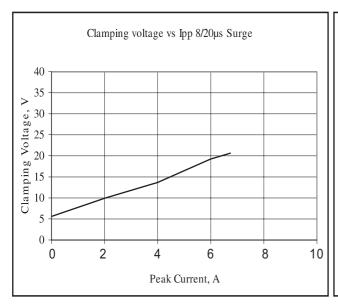
ELECTRICAL CHARACTERISTICS (TA=25°C)

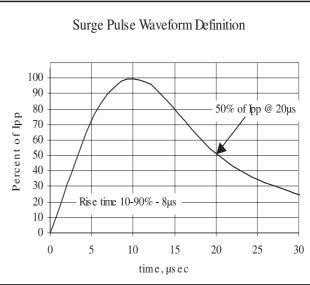
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	Vwrm		-	-	5.0	V
Reverse Breakdown Voltage	VBR	I BR=1mA	5.78	-	7.82	V
Reverse Leakage Current	IR	V _R =5V	-	-	1.0	μΑ
Clamping Voltage (8/20μs)	Vc	I pp=1A	-	-	12.5	V
Off State Junction Capacitance	Сл	0 Vdc Bias f=1MHz	-	-	30	pF

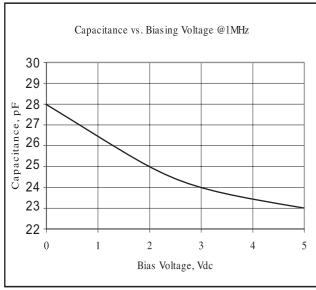


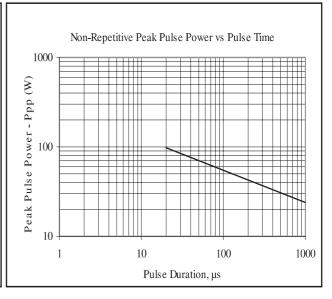


TYPICAL CHARACTERISTICS





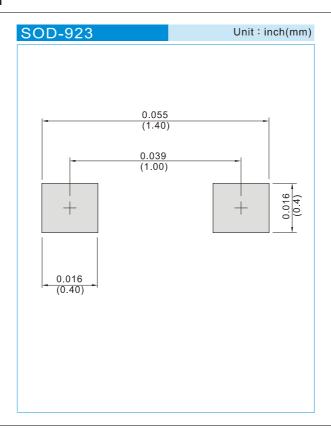








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 8K per 7" plastic Reel





Part No_packing code_Version

PJSD05CTM_R1_00001

For example:



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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