



PJSD05CTG

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

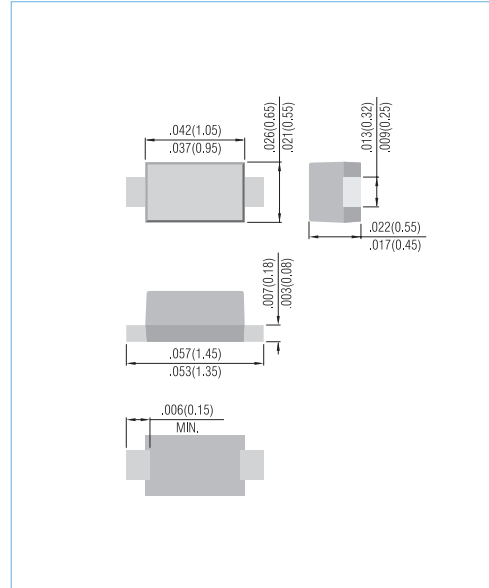
- 100W Power Dissipation (8/20µs Waveform)
- Low Leakage Current, Maximum of 0.5µA@5Vdc
- Very low Clamping voltage
- IEC 61000-4-2 ESD 15kV air, 8kV Contact Compliance
- In compliance with EU RoHS 2002/95/EC directivess

APPLICATIONS

- Video I/O ports protection
- Set Top Boxes
- Portable Instrumentation
- Case : SOD-723, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0007gram
- Marking : RB

SOD-723

Unit: inch (mm)



MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power (8/20 µs Waveform)	PPP	100	W
Peak Pulse Current (8/20 µs Waveform)	I _{PP}	5.0	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 =3.5V	-	-	0.5	µA
Clamping Voltage (8/20µs)	V _C	I _{PP} =1A	-	-	12	V
Clamping Voltage (8/20µs)	V _C	I _{PP} =4A	-	-	15	V
Off State Junction Capacitance	C _J	0 Vdc Bias f=1MHz	-	-	30	pF
Off State Junction Capacitance	C _J	5 Vdc Bias f=1MHz	-	-	25	pF



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TYPICAL CHARACTERISTICS

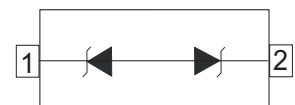
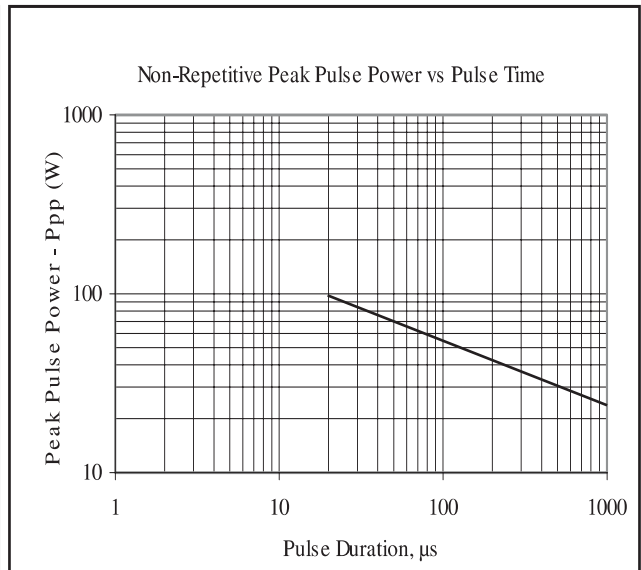
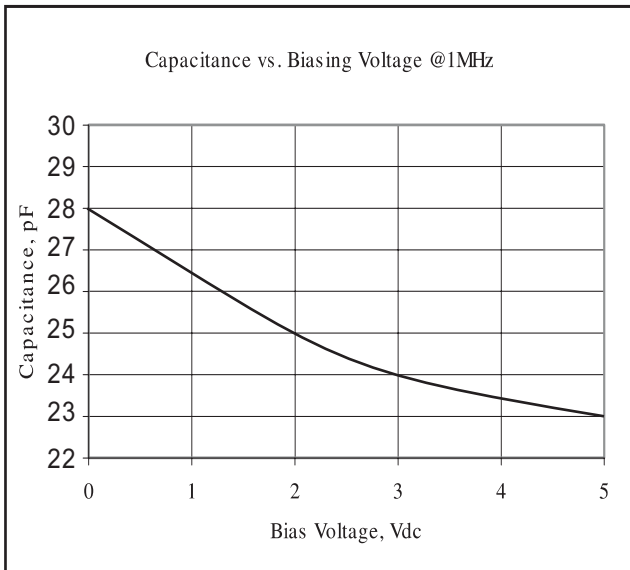
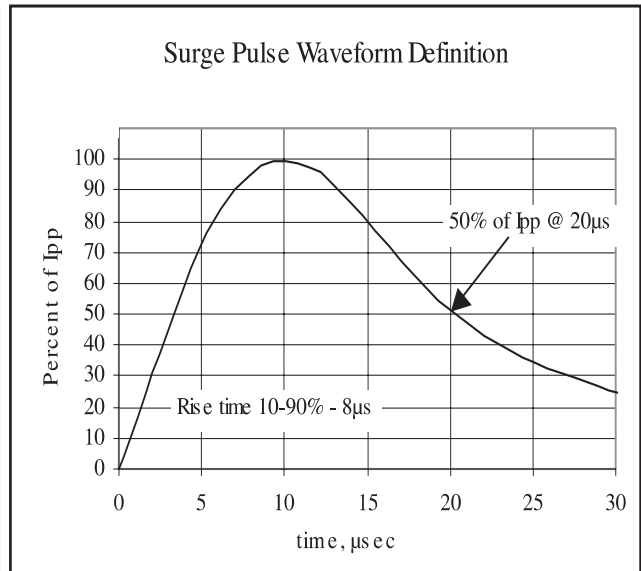
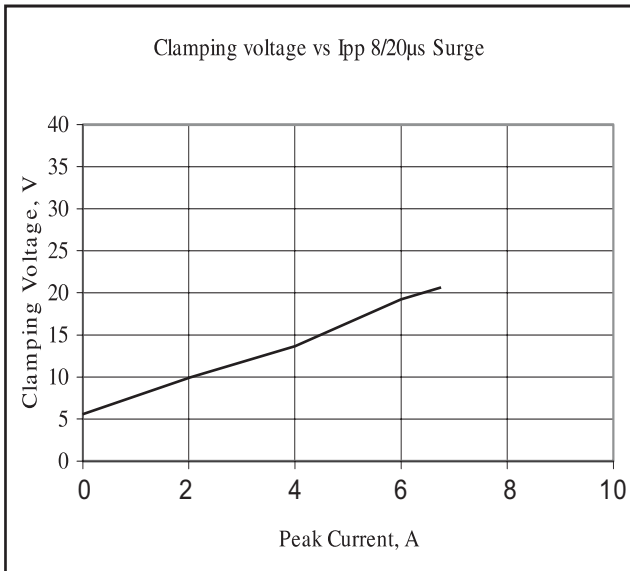
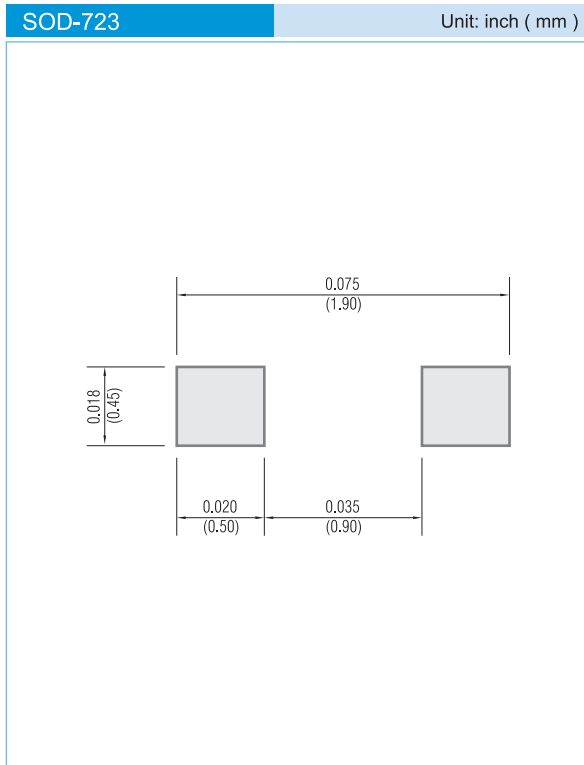


Fig. 130



PJSD05CTG

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

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