



400W LOW CLAMPING VOLTAGE SINGLE TVS FOR PROTECTION

This TVS/Zener Series has been designed to Protect Sensitive Equipment against ESD and to prevent Latch-Up events in very sensitive CMOS circuitry operating at 5V, 12V, 15V and 24Vdc .These devices come in an industry standard SOD123 package making them suitable for Portable/Computing Electronics, where the board space is a premium.

SPECIFICATION FEATURES

- 400W Power Dissipation (8/20µs Waveform)
- Very Low Leakage Current
- IEC61000-4-2 ESD 15kV air, 8kV Contact Compliance
- SOD123 Package
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

APPLICATIONS

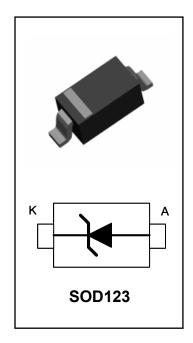
- Personal Digital Assistant (PDA)
- Digital Cameras
- Portable Instrumentation
- Mobile Phones and Accessories
- Desktops, Laptops

MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power (8/20µs Waveform)	P _{pp}	400	W
ESD Voltage (HBM)	V _{ESD}	25	kV
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS Tj = 25°C PJSD05 Marking T1S

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{WRM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1 mA	6.0			V
Reverse Leakage Current	I _R	V _R =5V			20	μΑ
Clamping Voltage (8/20µs)	V _c	1 _{pp} =5A			7.5	V
Clamping Voltage (820µs)	V _c	I _{pp} =24A			16	٧
Off State Junction Capacitance	Cj	0 Vdc Bias f = 1MHz			550	pF
Off State Junction Capacitance	Cj	5 Vdc Bias f = 1MHz			235	pF







ELECTRICAL CHARACTERISTICS Tj = 25°C

PJSD12 Marking T4S

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{WRM}				12	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	13.3			V
Reverse Leakage Current	Ι _R	V _R = 12V			1	μΑ
Clamping Voltage (8/20µs)	Vc	I _{pp} =5A			14.5	V
Clamping Voltage (8/20µs)	V _c	I _{pp} = 17A			23	V
Off State Junction Capacitance	Cj	0 Vdc Bias f = 1MHz			180	pF

PJSD15 Marking T5S

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{WRM}				15	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	16.7			V
Reverse Leakage Current	I _R	V _R = 15V			1	μA
Clamping Voltage (8/20µs)	V _C	I _{pp} = 5A			19	V
Clamping Voltage (8/20µs)	V _c	I _{pp} = 14A			28	V
Off State Junction Capacitance	Cj	0 Vdc Bias f = 1MHz			165	pF

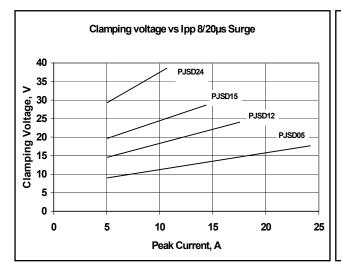
PJSD24 Marking T6S

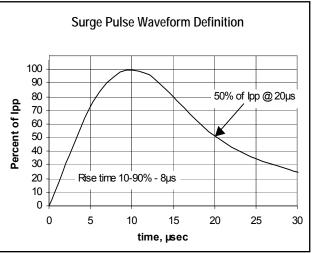
Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{WRM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	26.7			V
Reverse Leakage Current	I _R	V _R = 24V			1	μA
Clamping Voltage (8/20µs)	V _C	I _{pp} = 5A			29	V
Clamping Voltage (8/20µs)	V _c	I _{pp} = 11A			37	V
Off State Junction Capacitance	Cj	0 Vdc Bias f = 1MHz			120	pF

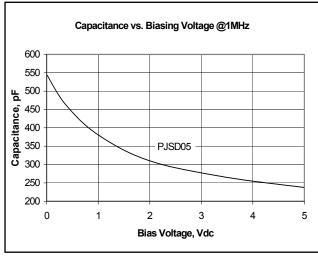


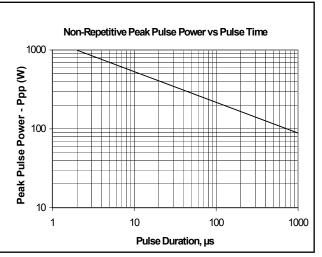


TYPICAL CHARACTERISTICS





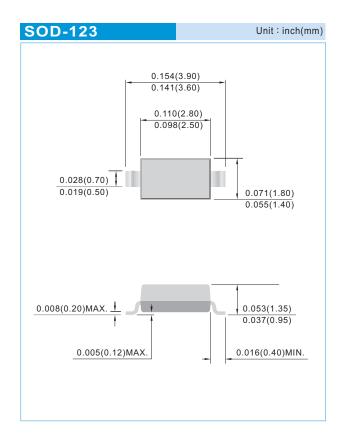


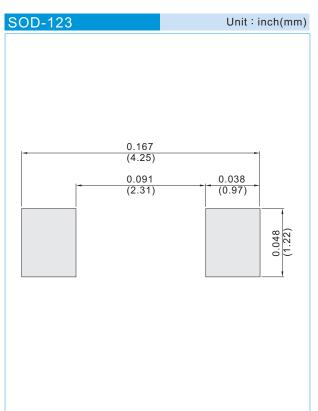






PACKAGE DIMENSIONS AND BOND PAD LAYOUT



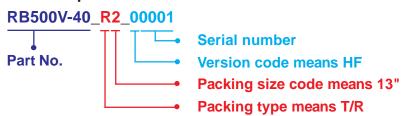


PJSD05 SERIES

Part No_packing code_Version

PJSD05_R1_00001 PJSD05_R2_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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PJSD05 SERIES

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