



SINGLE LINE TVS DIODE FOR ESD PROTECTION PORTABLE ELECTRONICS

VOLTAGE 5 Volt POWER 200 Watt SOD-

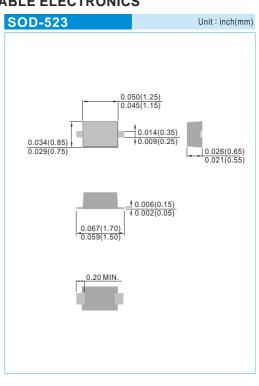
FEATURES

- 200 Watts peak pules power(tp=8/20μs)
- Small package for use in portable electronics
- IEC61000-4-2 8KV contact 15KV Air compliant
- Low clamping voltage and leakage current
- 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
- AEC-Q101 qualified
- Case: SOD-523 plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : Color band cathode
- · Marking: KS

APPLICATIONS

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





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

ABSOLUTE MAXIMUM RATING

Rating	Symbol	Value	Units
Peak Pulse Power (tp=8/20 μs)	P _{PP}	200	W
Maximum Peak Pulse Current	I _{PPM}	18	А
ESD Voltage per HBM MIL-STD-883	V _{ESD}	25	KV
Operating Junction and Storage Temperature Range	$T_{J,T_{STG}}$	-50 to +150	°C

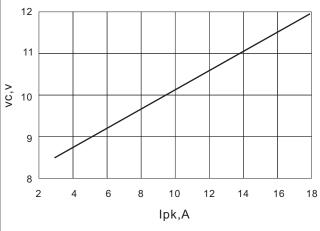
ELECTRICAL CHARACTERISTICS

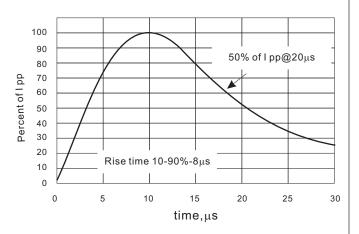
Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{_{\mathrm{RWM}}}$	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	6.0	=	-	V
Reverse Leakage Current	I _R	V _R =5V	-		1	μΑ
Clamping Voltage(8/20μs)	V _c	I _{PP} =5A	-	-	11	V
Clamping Voltage(8/20µs)	V _c	I _{PP} =15A	-	-	14	V
Off State Junction Capacitance	C _J	0Vdc Bias=f=1MHz	-	-	160	pF
Off State Junction Capacitance	CJ	5Vdc Bias=f=1MHz	-	-	80	pF

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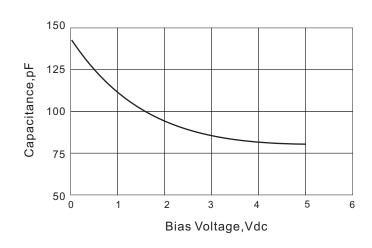






Clamping Voltage vs I pp 8/20 µs Surge

Pulse Waveform

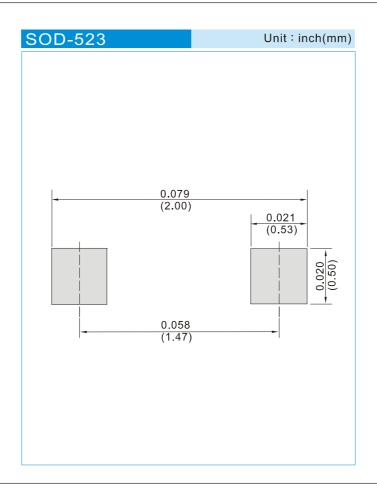


Capacitance vs. Biasing Voltage@1MHz





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

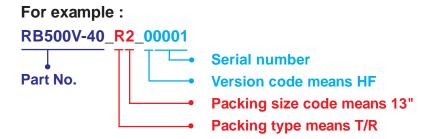
T/R - 5K per 7" plastic Reel





Part No_packing code_Version

PJSD05TS-02-AU_R1_000A1 PJSD05TS-02-AU_R2_000A1



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)	В	13"	2			
Tube Packing (T/P)	Т	26mm	х			
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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