ESD IEC61000-4-2(Air)

ESD IEC61000-4-2(Contact)

Storage Temperature Range

Operating Junction Temperature

Very Low Capacitance TVS/ESD Protection SOD-523 5 V **V**_{RWM} Features Bidirectional ESD protection of one line • IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact Compliance with 0.034(0.85) the capability up to ±30kV IEC61000-4-4(EFT): 40A(5/50nS) IEC61000-4-5(Lightning): 3.5A(8/20µS) • Low leakage current, maximum of 0.1µA at rated voltage 0.067(1.70) • Lead free in compliance with EU RoHS 2011/65/EU directive. Green molding compound as per IEC61249 Std. 0.20 MIN. (Halogen Free) Mechanical Data Case: SOD-523, Plastic Terminals: Solderable per MIL-STD-750, Method 2026 • Approx. Weight: 0.00005 ounces, 0.0014 grams • Marking: 6T Applications Mobile Phones and accessories Desktops, Servers and Notebook М Hand held portable **Digital Cameras** Fig.138(Top View) **Computer Interfaces Protection** • Serial and Parallel Ports Protection **Control Signal Lines Protection** • Maximum Ratings ($T_A=25^{\circ}C$ unless otherwise noted)

SYMBOL

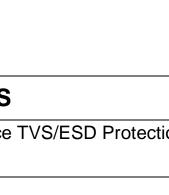
 V_{ESD}

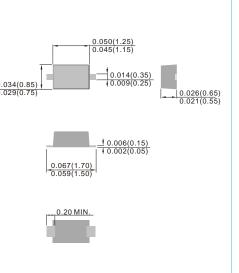
 T_J

T_{STG}

PARAMETER

PAN





LIMIT

±30

±30

-55 to +125

-55 to +150

UNITS

kV

°C

°C



Unit : inch(mm)



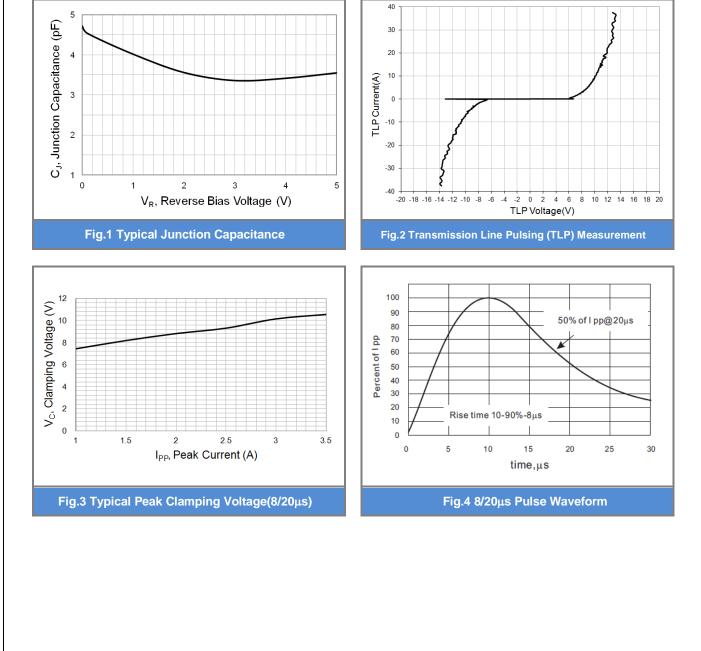


Electrical Characteristics (T _A =25 [°] C	unless otherwise noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Snap-Break Voltage	V_{SB}	I _{SB} =50mA	5	-	8	V
Reverse Leakage Current	I _R	V _R =5.0V	-	-	0.1	μA
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	-	9	V V
		I _{PP} =3.5A, t _P =8/20μs	-	-	12.5	
Clamping Voltage TLP (Note 1)	V _{CL}	I _{PP} =4A, t _P =100ns	-	8.6	-	
		I _{PP} =8A, t _P =100ns	-	9.7	-	
Dynamic Resistance	R_{DYN}	t _P =100ns	-	0.27	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz	-	-	10	pF

NOTES :

1. Testing using Transmission Line Pulse (TLP) conditions: $Z_0 = 50\Omega$, $t_P = 100$ ns.





TYPICAL CHARACTERISTIC CURVES





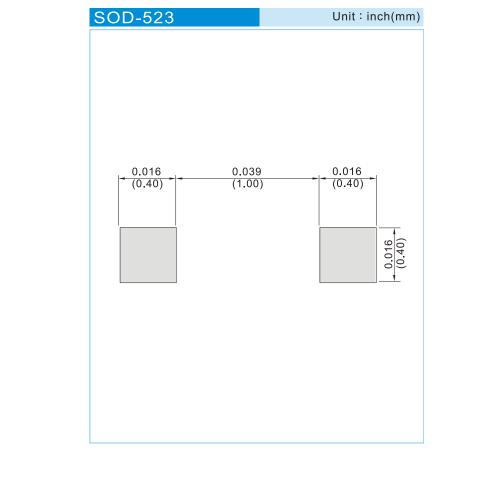


PJEC5V0M1TS

MOUNTING PAD LAYOUT

SEMI CONDUCTOR

PANJ



ORDER INFORMATION

- Packing information
 - T/R 5K per 7" plastic Reel
 - T/R 12K per 13" plastic Reel







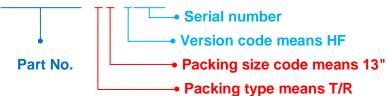
PJEC5V0M1TS

Part No_packing code_Version

PJEC5V0M1TS_R1_00001 PJEC5V0M1TS_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size 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			



PJEC5V0M1TS

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