



PJE28VM2TS

ESD Protection

V_{RWM}

28 V

Features

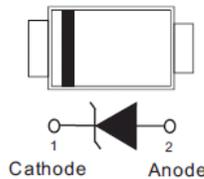
- ESD protection of one line
- IEC61000-4-2(ESD): ± 20 kV Air, ± 15 kV Contact Compliance
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 3A(8/20 μ S)
- Low leakage current, maximum of 0.5 μ A at rated voltage
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std.
(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: VM

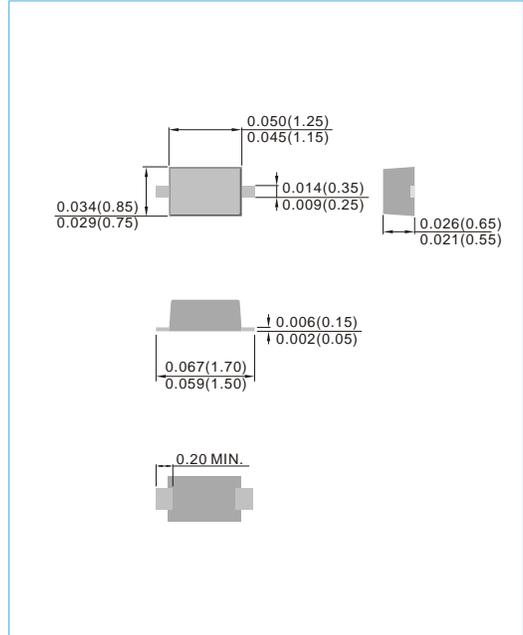
Applications

- LED Backlight
- Mobile Phones and accessories
- Desktops, Servers and Notebook
- Hand held portable
- Computer Interfaces Protection
- Serial and Parallel Ports Protection
- Control Signal Lines Protection



SOD-523

Unit : inch(mm)



Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation($t_p=8/20\mu\text{S}$)	P_{PP}	165	W
ESD IEC61000-4-2(Air)	V_{ESD}	± 20	kV
ESD IEC61000-4-2(Contact)		± 15	
Operating Junction Temperature Range	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$



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Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage ^(NOTE1)	V_{RWM}	-	-	-	28	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1\text{mA}$	29	-	35	V
Reverse leakage current	I_R	$V_R=28\text{V}$	-	-	0.5	μA
Clamping Voltage	V_{CL}	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$	-	38	45	V
		$I_{PP}=3\text{A}, t_p=8/20\mu\text{s}$	-	48	55	
Dynamic Resistance ^(NOTE2)	R_D	$t_p=8/20\mu\text{s}$	-	5	-	Ω
Off State Junction Capacitance	C_J	0Vdc Bias $f=1\text{MHz}$	-	-	25	pF

NOTE :

- 1.A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.
- 2.Dynamic resistance calculated form $I_{PP}=1\text{A}$ to $I_{PP}=3\text{A}$.



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TYPICAL CHARACTERISTIC CURVES

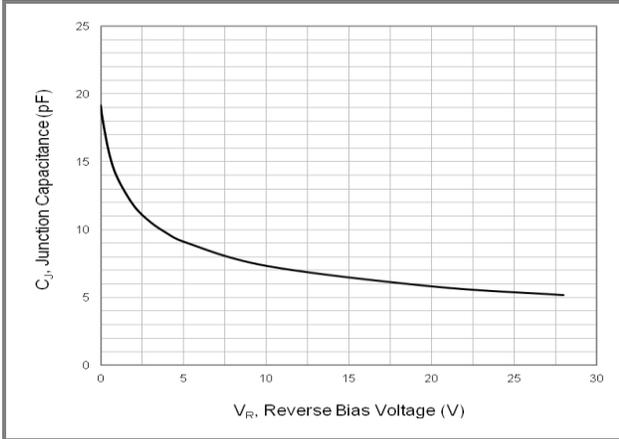


Fig.1 Typical Junction Capacitance



Fig.2 Typical Peak Clamping Voltage(8/20 μ s)

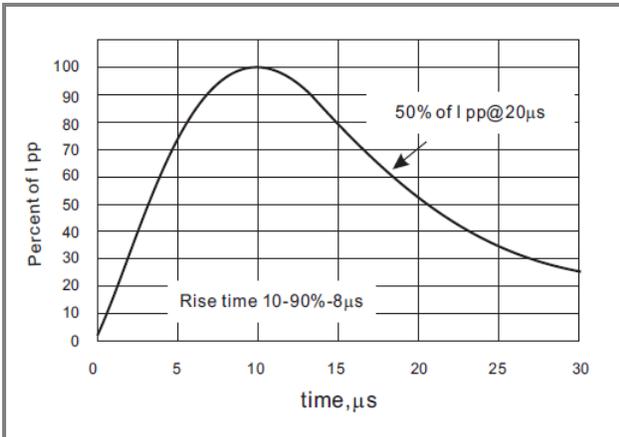


Fig.3 8/20 μ s Pulse Waveform

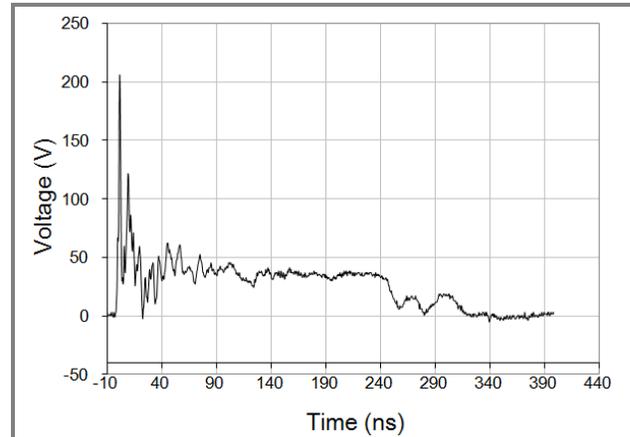
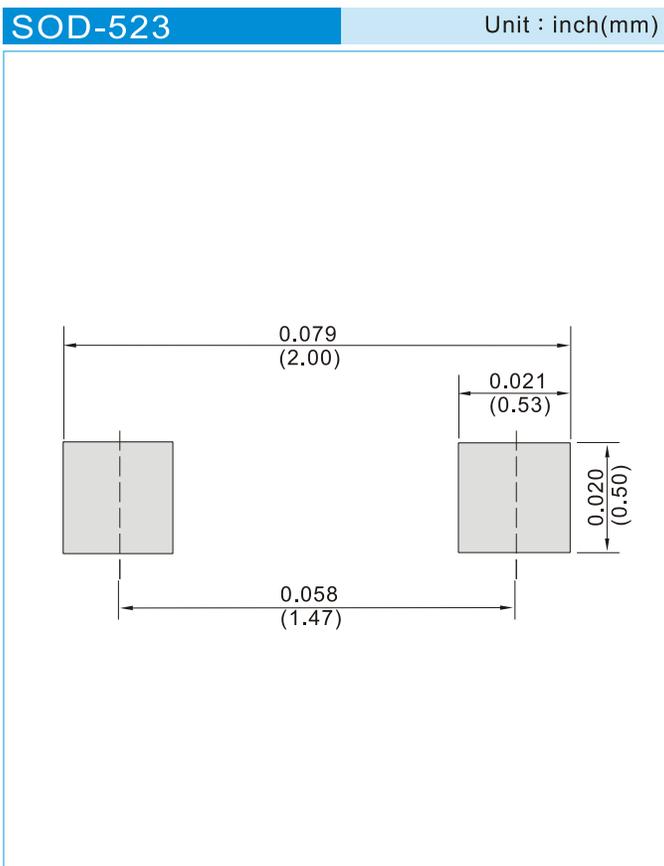


Fig.4 ESD Clamping (+8kV Contact per IEC61000-4-2)



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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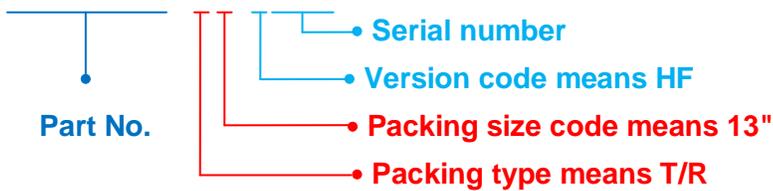
Part No_packing code_Version

PJE28VM2TS_R1_00001

PJE28VM2TS_R2_00001

For example :

RB500V-40_R2_00001



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)	B	13"	2			
Tube Packing (T/P)	T	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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