



Micro Commercial Components

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Features

- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- For space saving application
- Fast response ,response time less than 1ns.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

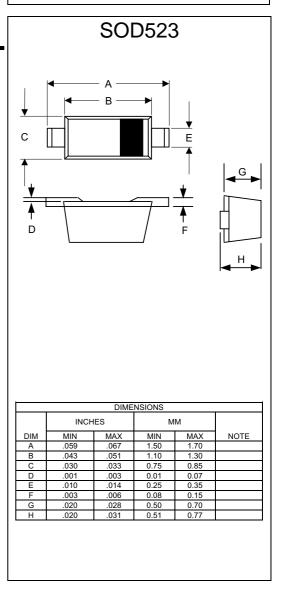
Maximum Ratings

- Operating Junction & StorageTemperature: -55°C to +150°C
- Maximum Thermal Resistance: 625°C/W Junction To Ambient

Parameter	Symbol	Limits	unit	
IEC61000-4-2(ESD)	Air		\pm 30	
	Contact		\pm 30	ΚV
ESD Voltage per human l		16	K٧	
per machine		400	V	
Power Dissipation	Pd	200	mw	

ESD3V3D5 Thru ESD12VD5

3.3V~12Volts ESD Protection Devices



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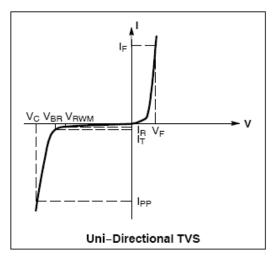
2011/01/01



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Symbol	Parameter			
I _{PP}	Maximum Reverse Peak Pulse Current			
Vc	Clamping Voltage @ IPP			
V _{RWM}	Working Peak Reverse Voltage			
I _R	Maximum Reverse Leakage Current @ V _{RWM}			
V _{BR}	Breakdown Voltage @ I⊤			
Ι _Τ	Test Current			
l _F	Forward Current			
V _F	Forward Voltage @ I _F			
P _{pk}	Peak Power Dissipation			
С	Max. Capacitance $@V_R=0$ and f =1MHz			

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)



ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted, V_F = 0.9 V Max. @ I_F = 10mA for all types)

Device*	Device Marking	V _{RWM} (V)	I _R (μΑ) @V _{RWM}	V _{вк} (V) @ I _т (Note 2)	IT	Vc @IPP⁺ = 5 A	I _{PP} (A) *	V _c (V) @Max I _{PP} ⁺	P _{pk} * (W)	C (pF)
		Max	Max	Min	mA	v	Max	Max	Max	Тур
ESD3V3D5	ZE	3.3	0.08	5.0	1.0	9.4	11.2	14.1	158	105
ESD5V0D5	ZF	5.0	0.08	6.2	1.0	11.6	9.4	18.6	174	80
ESD7V0D5	ZH	7.0	0.03	7.5	1.0	13.5	8.8	22.7	200	65
ESD12VD5	ZM	12	0.02	14.1	1.0	23	9.6	29	240	55

+Surge current waveform per Figure 1.

2. V_{BR} is measured with a pulse test current I_{T} at an ambient temperature of 25°C.

TYPICAL CHARACTERISTICS

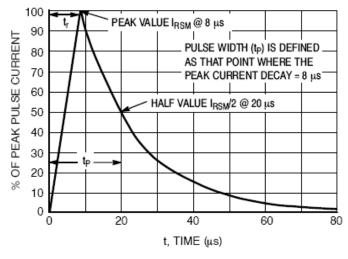


Figure 1.8 x 20 µs Pulse Waveform



Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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