

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

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ESD3V3D5 Thru ESD12VD5

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

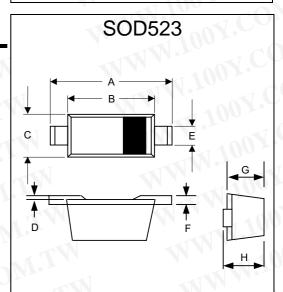
Maximum Ratings

- 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	-x1 10	±30	KV
DIVE	Contact	110-	±30	KV
ESD Voltage per human l	- 11	16	KV	
per machine	W	400	V	
Power Dissipation		Pd	200	mw

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

3.3V~12Volts ESD Protection Devices

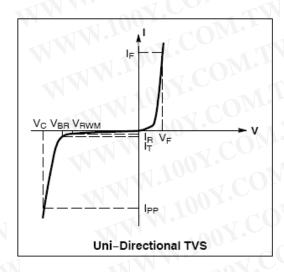


DIMENSIONS							
	INCHES		_ M	-17			
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.059	.067	1.50	1.70	4		
В	.043	.051	1.10	1.30			
С	.030	.033	0.75	0.85			
D	.001	.003	0.01	0.07			
Έ	.010	.014	0.25	0.35			
F	.003	.006	0.08	0.15			
G	.020	.028	0.50	0.70	4		
Н	.020	.031	0.51	0.77			



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

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 _T					
Ιτ	Test Current					
l _F	Forward Current					
V _F	Forward Voltage @ I _F					
P _{pk}	Peak Power Dissipation					
C	Max. Capacitance @V _R =0 and f =1MHz					



ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}$ C unless otherwise noted, $V_F = 0.9 \text{ V Max.}$ @ $I_F = 10\text{mA}$ for all types)

Device*	Device Marking	V _{RWM} (V)	I _R (μ A) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)	Ol _T	Vc @IPP* = 5 A	I _{PP} (A) +	V _c (V) @Max I _{PP} ⁺	P _{pk} ⁺ (W)	C (pF)
Max	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.

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TYPICAL CHARACTERISTICS

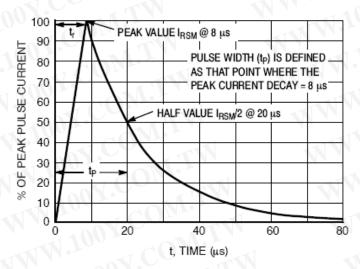


Figure 1. 8 x 20 µs Pulse Waveform

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



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Ordering Information :

Device	Packing				
Part Number-TP	Tape&Reel: 8Kpcs/Reel				

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