

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.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

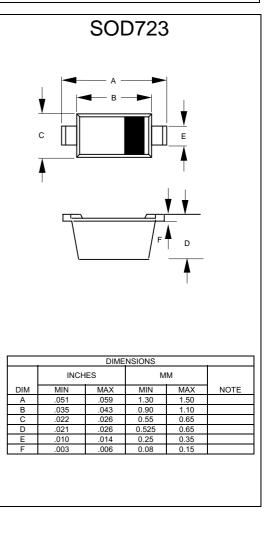
Maximum Ratings

- Operating Junction & StorageTemperature: -55°C to +150°C
- Maximum Thermal Resistance: 833°C/W Junction To Ambient

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		\pm 30	κv
	Contact		\pm 30	ĸ٧
ESD Voltage per human		16	K٧	
per machine		400	V	
Power Dissipation	Pd	150	mw	

ESD3V3D7 Thru ESD12VD7

3.3V~12Volts ESD Protection Devices



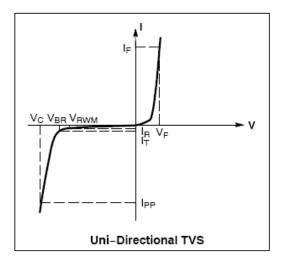
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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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			
IT	Test Current			
IF	Forward Current			
VF	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, V_F = 0.9 V Max. @ I_F = 10mA for all types)

Device	Device Marking	V _{RWM} (V)	I _R (μA) @V _{RWM}	V _{BR} (V) @ I _T (Note 2)	Ι _τ	I _{₽₽} (A) ⁺	V _c (V) @Max I _{₽₽} *	P _{pk} ⁺ (W)	C (pF)
	warking	Max	Max	Min	mA	Max	Max	Max	Тур
ESD3V3D7	E0	3.3	2.5	5.0	1.0	10.4	11.9	113	80
ESD5V0D7	E2	5.0	1.0	6.2	1.0	8.8	13.3	117	65
ESD12VD7	E3	12	1.0	13.5	1.0	5.4	23.7	128	30

+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

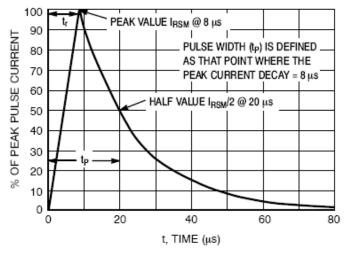
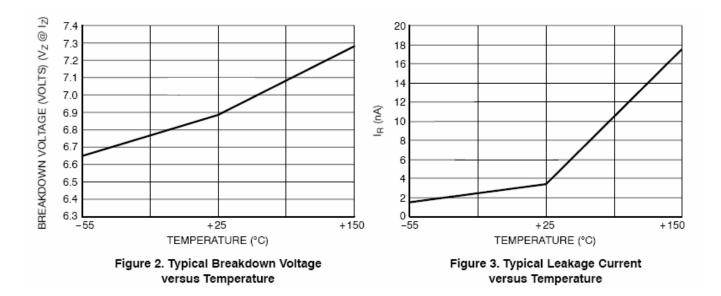


Figure 1. 8 x 20 µs Pulse Waveform

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Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel8Kpcs/Reel	

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