



Micro Commercial Components

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ESD5V0D3B

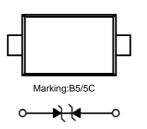
Features

- For sensitive ESD protection
- Low clamping voltage
- Low leakage
- Protects one power or I/O port
- ESD protection > 35 kV
- Fast response ,response time less than 1ns.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

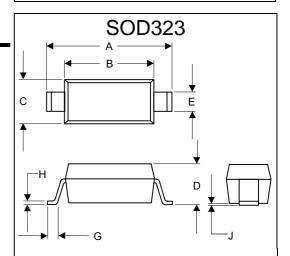
Maximum Ratings

Operating Junction & Storage Temperature: -55°C to +150°C

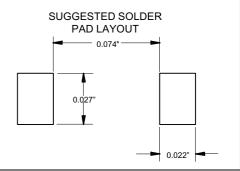
Parameter	,	Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	127
	Contact		\pm 8	KV
IEC 61000-4-4 (EFT) (5/50ns)			40	Α
Power Dissipation		Ррр	500	W



5.0Volts **ESD Protection Devices**



DIMENSIONS					
DIM	INCHES		N	NOTE	
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	





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

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown voltage	V_{BR}	I _t = 1mA	5.8			V
Reverse Leakage Current	I _R	V _{RWM} = 5V T=25 °C			1	μA
Clamping Voltage	Vc	$I_{PP} = 1A$ $t_P = 8/20 \mu s$			9.8	V
Clamping Voltage	V _C	I_{PP} =42A t_P = 8/20 μ s			13.5	V
Junction Capacitance	C _j	V _R =0V f = 1MHz			35	pF

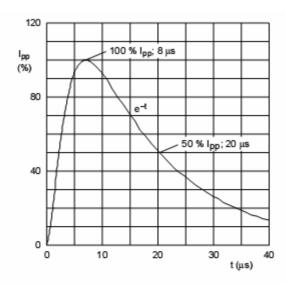


Figure 1. 8/20us pulse waveform

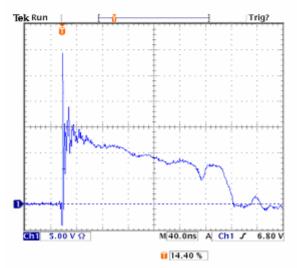


Figure 2 . Positive 8 kV Contact per IEC 6100-4-2

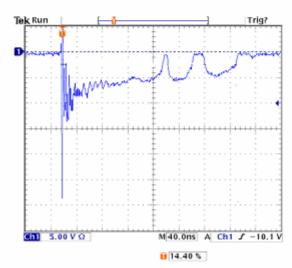


Figure 3. Negative 8 kV Contact per IEC 6100-4-2



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Ordering Information:

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

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