



Micro Commercial Components

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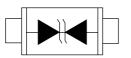
Features

- Halogen free available upon request by adding suffix "-HF"
- 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

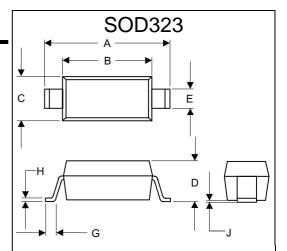
• Operating Junction & StorageTemperature: -55°C to +150°C

Parameter	Symbol	Limits	unit		
IEC61000-4-2(ESD)	Air		±15		
	Contact		±8	KV	
IEC 61000-4-4 (EFT) (5/50ns)			40	А	
Peak Pulse Power (t _p =8/20µS)		Ррр	350	W	

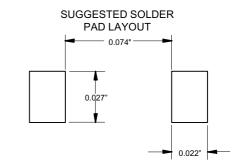


ESD12VD3B

12 Volts ESD Protection Devices



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
А	.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	



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Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse stand-off voltage	V _{RWM}				12	V
Reverse Breakdown voltage	V _{BR}	I _t = 1mA	13.5			V
Reverse Leakage Current	I _R	V _{RWM} = 12V T=25 ℃			1	μA
Clamping Voltage	Vc	I _{PP} =1A t _P = 8/20μs			15.5	V
Junction Capacitance	Cj	V _R =0V f = 1MHz		80	100	pF

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

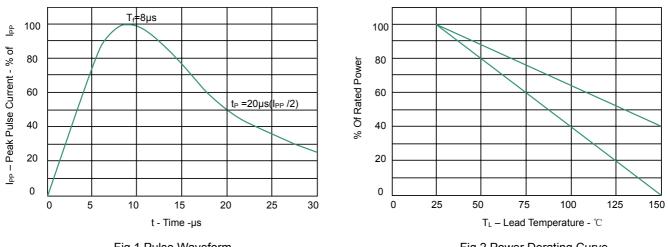


Fig 1.Pulse Waveform

Fig 2.Power Derating Curve

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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Micro Commercial Components (MCC): ESD12VD3B-TP