



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

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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

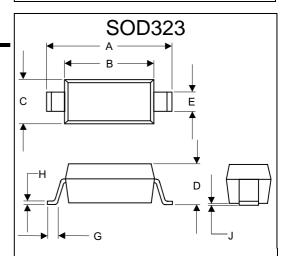
• Operating Junction &StorageTemperature: -55°C to +150°C

Parameter	Symbol	Limits	unit	
IEC61000-4-2(ESD)	Air		±15	12.7
	Contact		\pm 8	KV
IEC 61000-4-4 (EFT) (5/50ns)			40	Α
Peak Pulse Power (t _p =8/20µS)		Ррр	350	W

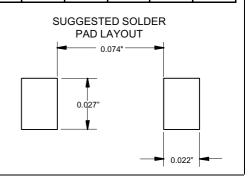


ESD12VD3B

12 Volts 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	
Ε	.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}				12	٧
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	C _j	V _R =0V f = 1MHz		80	100	pF

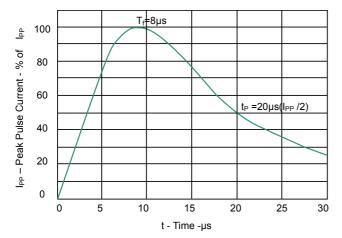


Fig 1.Pulse Waveform

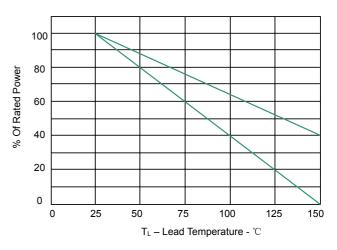


Fig 2.Power Derating Curve



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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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