Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC) ESD12VD3B-TP

For any questions, you can email us directly: sales@integrated-circuit.com

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

Phone: (818) 701-4933 Fax: (818) 701-4939

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

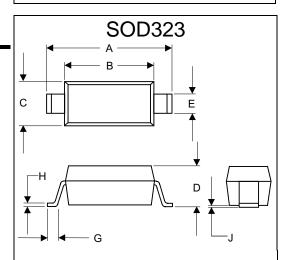
Operating Junction &StorageTemperature: -55°C to +150°C

unit	Limits	Symbol	er	Paramete	
10.7	± 15		Air	IEC61000-4-2(ESD)	
KV	±8		Contact		
Α	40		IEC 61000-4-4 (EFT) (5/50ns)		
W	350	Ppp	Peak Pulse Power (t _p =8/20µS)		
1	40	Ppp	, (

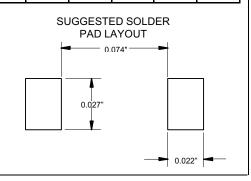


ESD12VD3B

12 Volts ESD Protection Devices



DIMENSIONS					
DIM	INCHES		N	NOTE	
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	B .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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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

	Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
	Reverse stand-off voltage	V_{RWM}				12	V	
F	Reverse Breakdown voltage	V_{BR}	$I_t = 1mA$	13.5			V	
R	Reverse Leakage Current	I_R	V _{RWM} = 12V T=25 °C			1	μΑ	
	Clamping Voltage	Vc	I_{PP} =1A $t_P = 8/20 \mu s$			15.5	V	
	Junction Capacitance	C_{j}	V_R =0V f = 1MHz		80	100	pF	

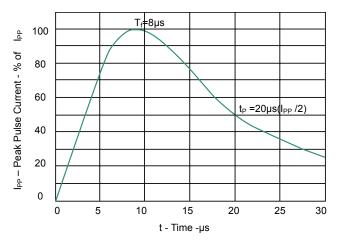


Fig 1.Pulse Waveform

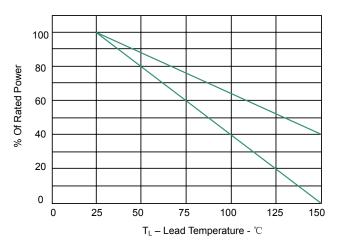


Fig 2.Power Derating Curve

Revision: C 2 of 3 **2014/11/08**

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of ESD12VD3B-TP - TVS DIODE 12VWM 15.5VC SOD323

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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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