

Features

- · For Sensitive ESD Protection
- · Low Clamping Voltage
- · Low Leakage
- Protects One Power or I/O Port
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

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

MCC Part Number	Device Marking
ESD39VD3B	J7

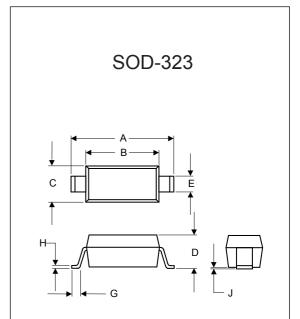
IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV		
Power Dissipation	P _D	200mW		

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

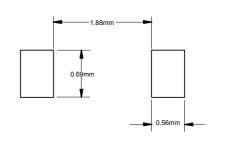


ESD Protection Device



DIMENSIONS					
DIM INCI		HES M		М	NOTE
ווועו	MIN	MAX	MIN	MAX	NOIL
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

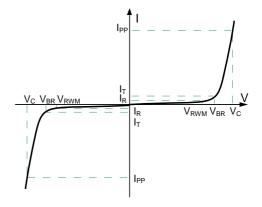
Suggested Solder Pad Layout





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

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ I _{PP}		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ I _T		
I _T	Test Current		
С	Capacitance @V _R =0 and f =1MHz		



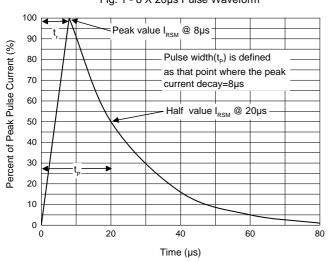
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

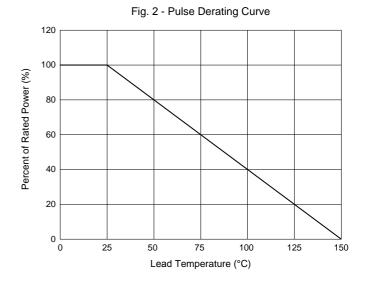
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Zener voltage	V _Z	I _Z = 1mA	35.1		42.9	V
Reverse Leakage Current	I _R	V _R =30V			0.1	μA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			30	pF



Curve Characteristics

Fig. 1 - 8 X 20µs Pulse Waveform







Ordering Information

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

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Rev.3-2-08012020 4/4 MCCSEMI.COM