

Features

- · Bi-Directional ESD Protection of One Line
- Low Capacitance
- · Low Clamping Voltage
- · Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

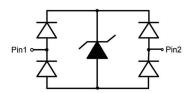
Maximum Ratings

IEC61000-4-2 (ESD)	Air	±30KV		
IEC01000-4-2 (E3D)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	7A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	77W		
Junction Temperature Range	Тл	-40°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note:

- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

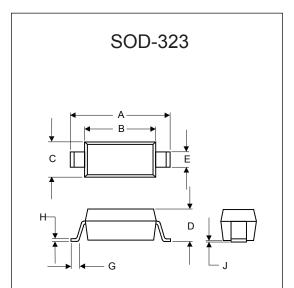
Internal Structure



Marking Information

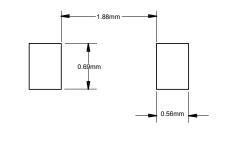


Snap Back ESD Protection Device



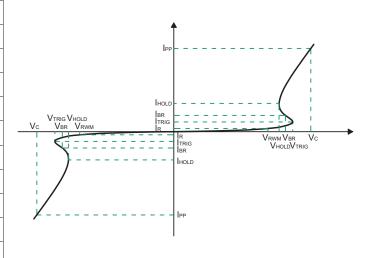
DIMENSIONS					
DIM INCHI		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
Е	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





Symbol	Parameter	
V_{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V_{BR}	Breakdown Voltage @ IT	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
V_{TRIG}	Reverse Trigger Voltage	
I _{TRIG}	Reverse Trigger Current	
V_{HOLD}	Reverse Holding Voltage	
I _{HOLD}	Reverse Holding Current	
C _J	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

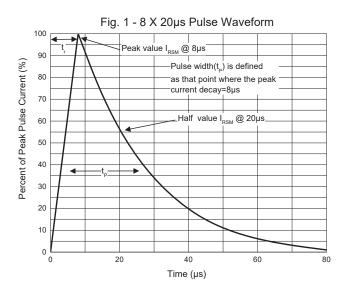
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6	8		V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.05	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		8.1	9	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =7A, t _P =8/20μs		9.7	11	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.8		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.55		Ω

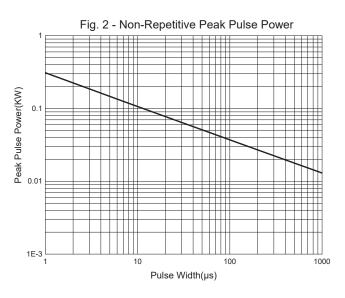
Note:

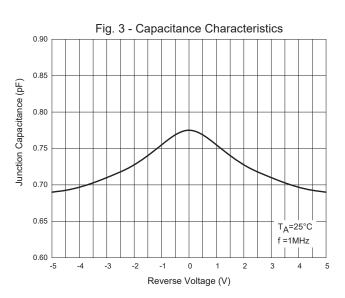
^{1.}Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

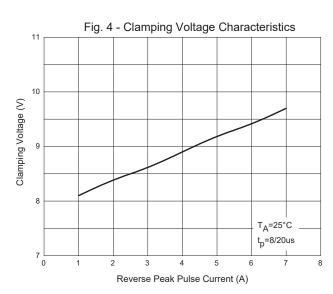


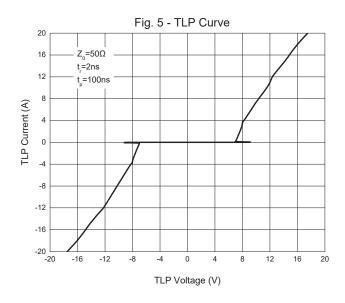
Curve Characteristics

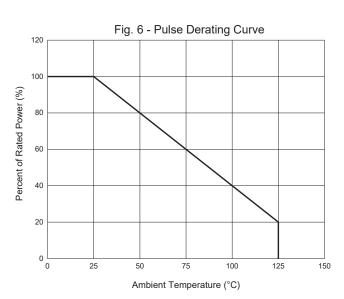














Ordering Information

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

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Rev.4-1-03052024 4/4 MCCSEMI.COM