

Features

- · Protects One Data Line
- · Ultra Low Leakage
- · Ultra Low Operating Voltage
- · Ultra Low Clamping Voltage
- · 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 +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
ESDSB2V5AE2	2A		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I _{PP}	10A
Peak Pulse Power (8/20µs)	P _{PK}	100W

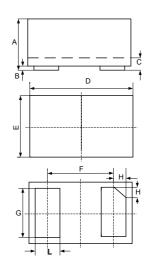
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



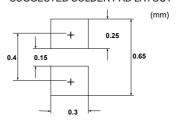
Snap Back ESD Protection Device

0201-A



	DIMENSIONS				
DIM INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.009	0.013	0.23	0.33	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.022	0.026	0.55	0.65	
Е	0.010	0.014	0.25	0.35	
F	0.014		0.355		TYP.
G	0.008	0.011	0.22	0.28	
Н	0.003		0.079		TYP.
L	0.006	0.009	0.16	0.22	

SUGGESTED SOLDER PAD LAYOUT



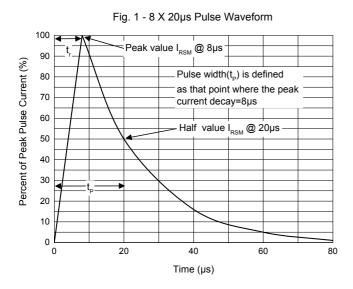


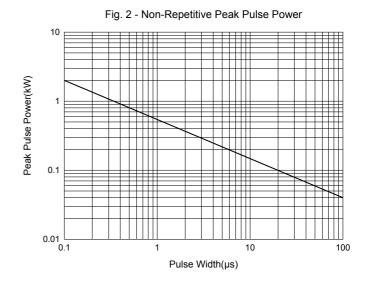
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

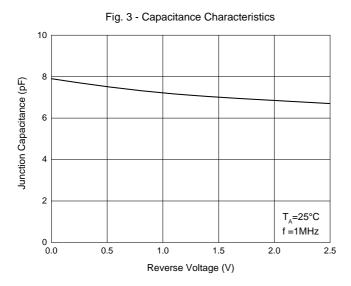
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}			2.5	2.8	V
Punch-Through Voltage	V _{PT}	I _T =2μA	2.9			V
Snap-Back Voltage	V _{SB}	I _T =50mA	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =2.5V			0.1	μA
Reverse Leakage Current	I _R	V _{RWM} =2.8V			0.2	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			5	V
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs			10	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			25	pF

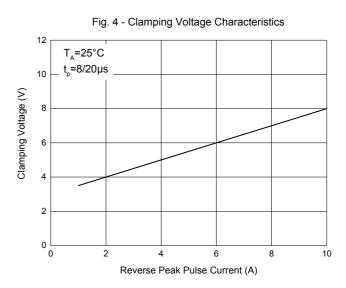


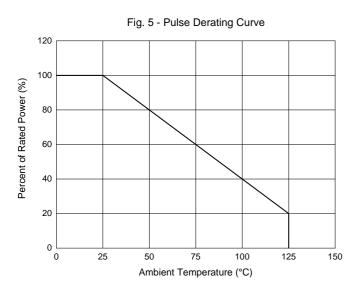
Curve Characteristics













Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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