

Features

- Solid-state Silicon technology
- · Ultra Low Capacitance
- · Low Clamping Voltage
- 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

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
ESDSB7V0LB	7A		

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV		
Peak Pulse Current(8/20µs)	I _{PP}	6A		
Peak Pulse Power (8/20µs)	P _{PK}	84W		

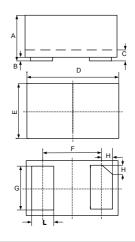
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



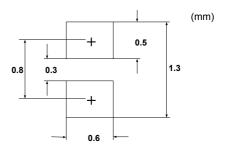
Snap Back ESD Protection Device

DFN1006-2



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE
Α	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
Е	0.022	0.026	0.55	0.65	
F	0.0)26	0.6	650	TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

SUGGESTED SOLDER PAD LAYOUT





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

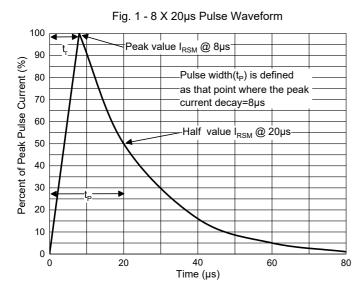
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				7	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	7.2		10.5	V
Reverse Holding Voltage	V _{HOLD}	I _{HOLD} = 50mA	7.2		10.5	V
Reverse Leakage Current	I _R	V _{RWM} = 7V			100	nA
Clamping Voltage ^(Note 2)	V _C	I _{PP} =16A, t _P =100ns		12		V
Dynamic Resistance ^(Note 2)	R _{DYN}			0.28		Ω
Clamping Voltage ^(Note 3)	V _C	V _{ESD} =8KV		12		V
Clamping Voltage ^(Note 4)	V _C	I _{PP} =1A, t _P =8/20μs		9	11	V
Clamping Voltage ^(Note 4)	V _C	I _{PP} =6A, t _P =8/20μs		12	14	V
Junction Capacitance	C _J	V _R =0V, f=1MHz		10	13	pF
Junction Capacitance	CJ	V _R =2.5V, f=1MHz		8	11	pF

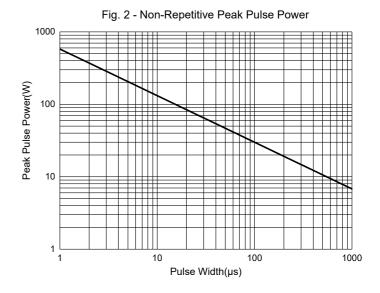
Note:

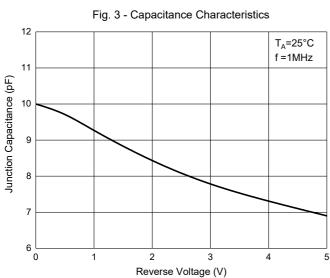
- 2. TLP Parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, Averaging Window from 60ns to 80ns. RDYN is Calculated from 4A to 16A.
- 3. Contact Discharge Mode, According to IEC61000-4-2.
- 4. Non-repetitive Current Pulse, According to IEC61000-4-5.

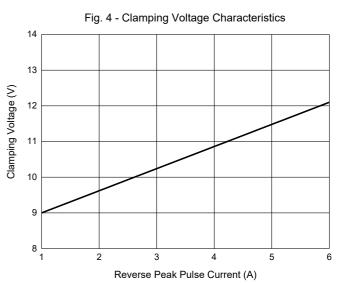


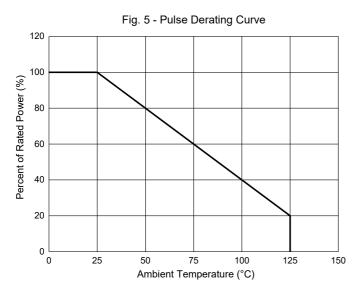
Curve Characteristics

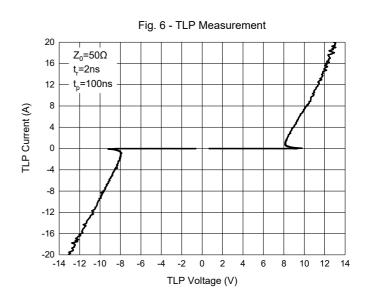














Ordering Information

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

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