

Features

- Solid-state Silicon technology
- Ultra Low Capacitance
- Low Leakage Current
- 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

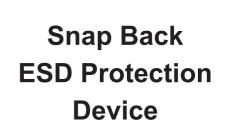
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

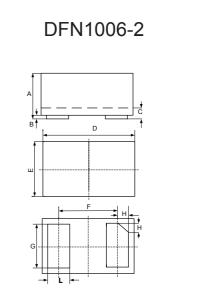
MCC Part Number	Device Marking		
ESDSB5V0LB	5B		
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Current(8/20µs)	I _{PP}	20A	
Peak Pulse Power (8/20µs)	P _{PK}	260W	

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

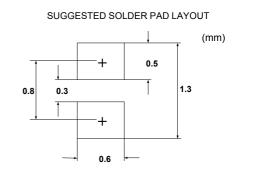
Internal Structure

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DIMENSIONS					
		HES	6 MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
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	
E	0.022	0.026	0.55	0.65	
F	0.0	026	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	





Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	5.1			V
Reverse Holding Voltage	V _{HOLD}	I _{HOLD} =50mA	5.1			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			100	nA
Clamping Voltage ^(Note 2)	V _c	I _{PP} =16A, t _P =100ns		8		V
Dynamic Resistance ^(Note 2)	R_{DYN}			0.08		Ω
Clamping Voltage ^(Note 3)	V _c	V _{ESD} =8KV		8		V
Clamping Voltage ^(Note 4)	V _c	I _{PP} =1A, t _P =8/20μs			9	V
Clamping Voltage ^(Note 4)	V _c	I _{PP} =10A, t _P =8/20μs			11	V
Clamping Voltage ^(Note 3)	V _c	I _{PP} =20A, t _P =8/20μs			13	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		35	42	pF
Junction Capacitance	C」	V _R =2.5V, f=1MHz		23	30	pF

Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Note:

2. TLP Parameter: $Z_0=50\Omega$, $t_p=100$ ns, $t_r=2$ ns, Averaging Window from 60ns to 80ns. RDYN is Calculated from 4A to 16A.

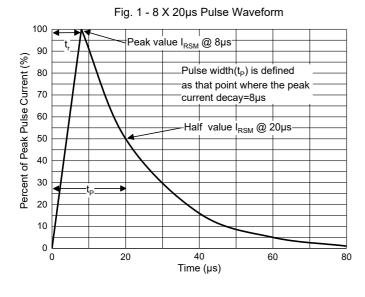
3. Contact Discharge Mode, According to IEC61000-4-2.

4. Non-repetitive Current Pulse, According to IEC61000-4-5.

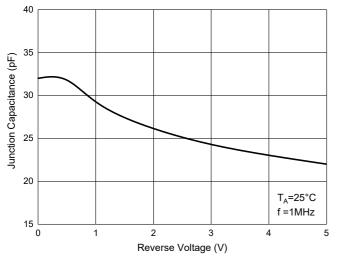




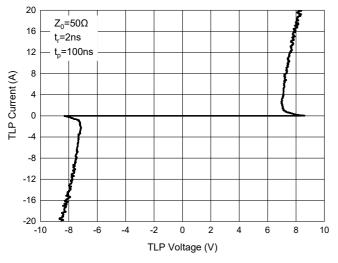
Curve Characteristics

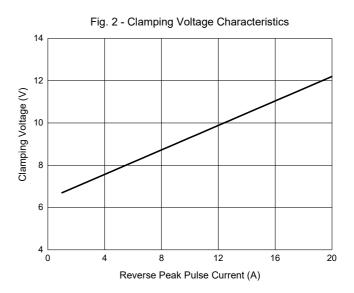




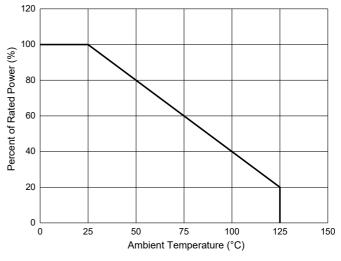














Ordering Information

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

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