

Features

- Protects One Data or Power Line
- Ultra Low Leakage
- 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		
ESDH1V8LB	P18		
	Air	±30KV	

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I _{PP}	38A
Peak Pulse Power (8/20µs)	Р _{РК}	300W

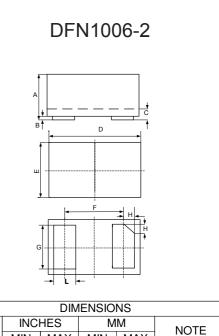
Note:

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

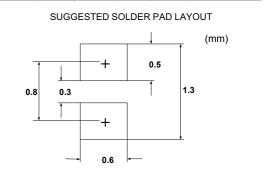
Internal Structure

-0





	DIMENSIONS				
DIM INCHES		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	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	



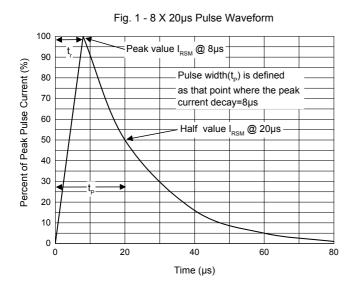


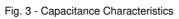
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

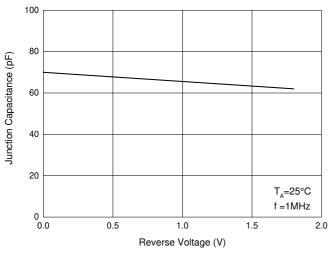
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				1.8	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	2.5			V
Reverse Leakage Current	I _R	V _{RWM} =1.8V			0.2	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs			3.5	V
Clamping Voltage	V _C	I _{PP} =38A, t _P =8/20μs			8	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			80	pF



Curve Characteristics









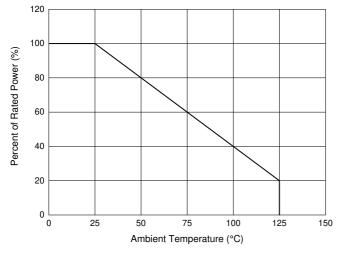


Fig. 2 - Non-Repetitive Peak Pulse Power

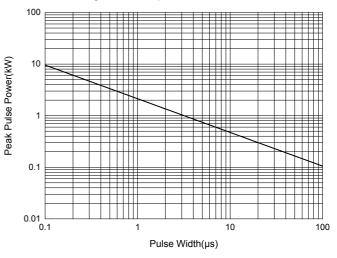
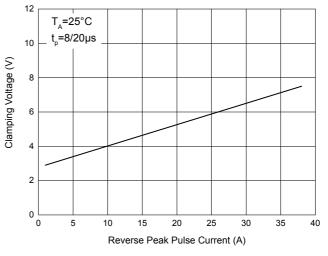


Fig. 4 - Clamping Voltage Characteristics







Ordering Information

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

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