

Features

- · Protection One Line I/O Port
- · Low Reverse Clamping Voltage
- · Ultra Low Capacitance
- 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

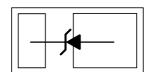
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
ESD0561P1	6A		

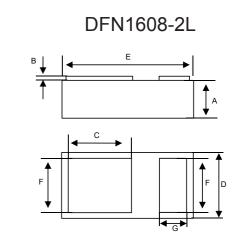
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20μs)	I _{PP}	80A
Peak Pulse Power (8/20µs)	P _{PK}	1100W

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

Circuit and Pin Schematic

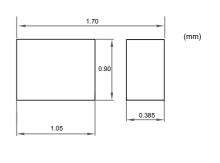


ESD Protection Device



	DIMENSIONS				
DIM	INC	ICHES MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.018	0.022	0.47	0.55	
В	0.000	0.002	0.00	0.05	
С	0.031	0.035	0.80	0.90	
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.022	0.026	0.55	0.65	
G	0.005	0.009	0.13	0.23	

Suggested Solder Pad Layout



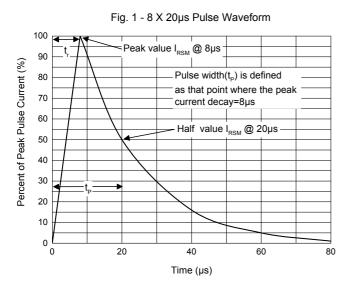


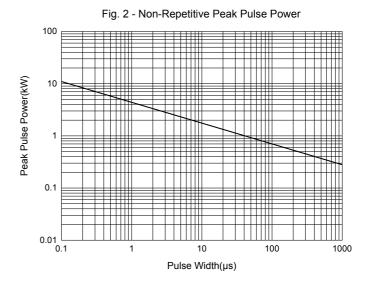
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

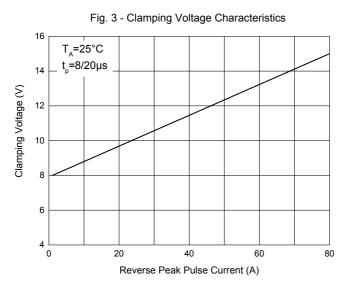
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6		9	٧
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Forward Voltage	V _F	I _F =10mA			1.15	٧
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs			11	V
Clamping Voltage	V _C	I _{PP} =80A, t _P =8/20μs			17.5	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			800	pF

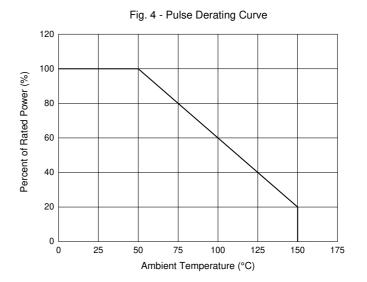


Curve Characteristics











Ordering Information

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

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