

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 Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

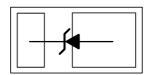
Maximum Ratings

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

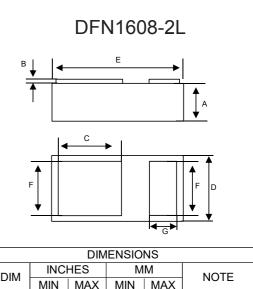
MCC Part Number	Device Marking		
ESD0561P1	A6		

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)	Р _{РК}	1400W

Circuit and Pin Schematic

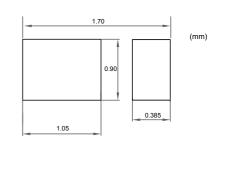






	DIM					NOTE	
	DIN	MIN	MAX	MIN	MAX	NOTE	
	А	0.018	0.022	0.47	0.55		
	В	0.000	0.002	0.00	0.05		
Γ	С	0.031	0.035	0.80	0.90		
	D	0.030	0.033	0.75	0.85		
	Е	0.061	0.065	1.55	1.65		
	F	0.022	0.026	0.55	0.65		
	G	0.005	0.009	0.13	0.23		

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	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Forward Voltage	V _F	I _F =10mA			1.15	V
Clamping Voltage	V _c	I _{PP} =10A, t _P =8/20μs			9.6	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

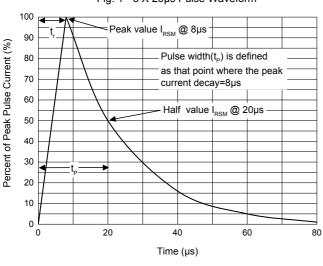


Fig. 1 - 8 X 20µs Pulse Waveform

Fig. 2 - Non-Repetitive Peak Pulse Power

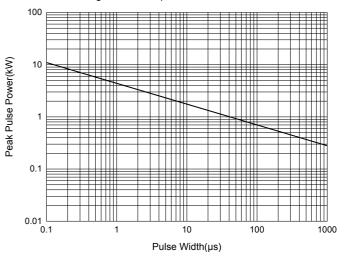


Fig. 3 - Clamping Voltage Characteristics

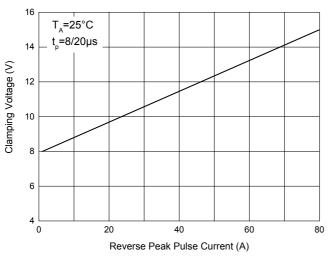
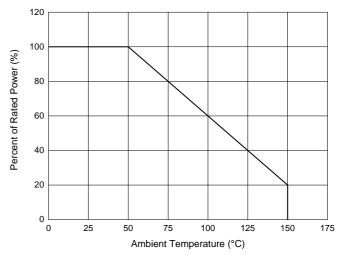


Fig. 4 - Pulse Derating Curve





Ordering Information

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

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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