

Features

- · 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

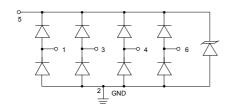
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC0554P3	55P

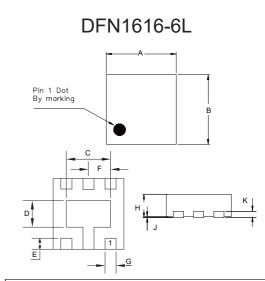
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Current(8/20µs)	I _{PP}	11A	
Peak Pulse Power (8/20µs)	P _{PK}	240W	

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 Diagram

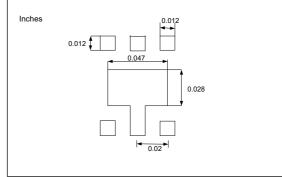


ESD Protection Device



DIMENSIONS						
DIM INCH		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.061	0.065	1.55	1.65		
В	0.061	0.065	1.55	1.65		
С	0.034	0.043	0.85	1.10		
D	0.018	0.028	0.45	0.70		
Е	0.008	0.012	0.20	0.30		
F	0.020		0.50		TYP.	
G	0.008	0.012	0.20	0.30		
Н	0.020	0.024	0.50	0.60		
J	0.000	0.002	0.00	0.05		
K	0.006		0.15		TYP.	

SUGGESTED SOLDER PAD LAYOUT



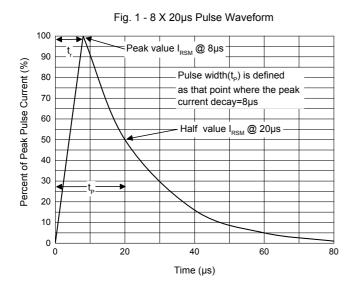


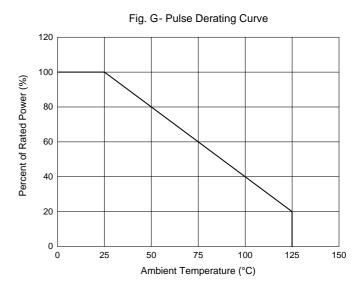
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

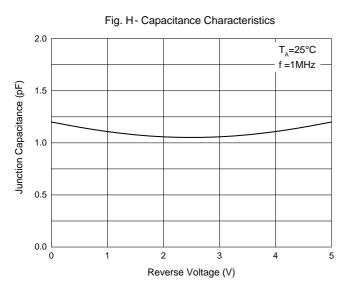
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Reverse Working Voltage	V_{RWM}	Pin 5 to Ground			5.5	V	
Reverse Breakdown Voltage V _{BR}		I _T = 1mA, Pin 5 to Ground	6.0		7.8	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	I _T = 1mA, Pin 1,3,4 or 6 to Ground	6.5		8.0	V		
Reverse Leakage Current	I _R	V _{RWM} =5.5V, Pin 5 to Ground			0.1	μА	
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Any I/O Pin to Ground			10	V	
Clamping Voltage	V _C	I _{PP} =11A, t _P =8/20μs, Any I/O Pin to Ground			22	V	
Junction Capacitance	Сл	V _R = 0V, f = 1MHz, Between I/O Pins			2	pF	
Junction Capacitance	Сл	V _R = 0V, f = 1MHz, Any I/O Pin to Ground			1	pF	

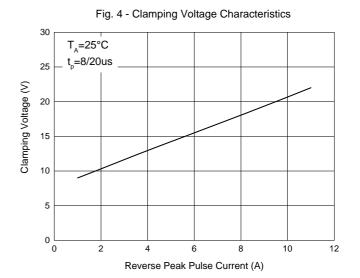


Curve Characteristics

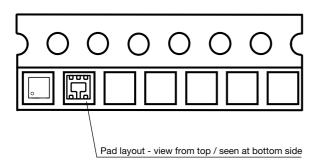








Pin Location





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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