

Features

- · Uni-Directional ESD Protection of One Line
- · High Peak Pulse Current Capability
- · 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

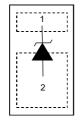
MCC Part Number	Device Marking
ESD0551P1	A6

IEC61000-4-2 (ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current (8/20μs)	I _{PP}	80
Peak Pulse Power (8/20µs)	P _{PK}	1200W

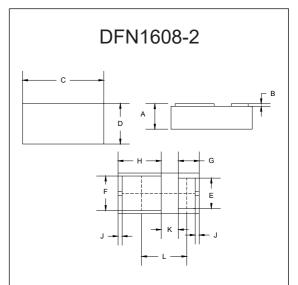
Note:

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

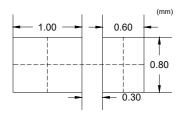


ESD Protection Device



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.018	0.022	0.45	0.55		
В	0.000	0.004	0.01	0.09		
С	0.061	0.065	1.55	1.65		
D	0.030	0.033	0.75	0.85		
E	0.020	0.027	0.52	0.68		
F	0.024	0.030	0.60	0.76		
G	0.016		0.41		REF.	
Н	0.033		0.85		REF.	
J	0.003		0.08		REF.	
K	0.013		0.34		REF.	
L	0.035	0.039	0.90	1.00		

Suggested Solder Pad Layout



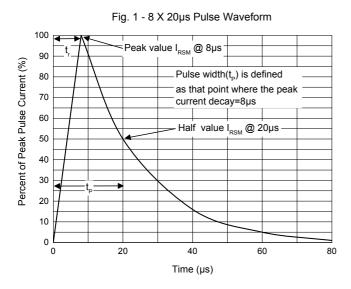


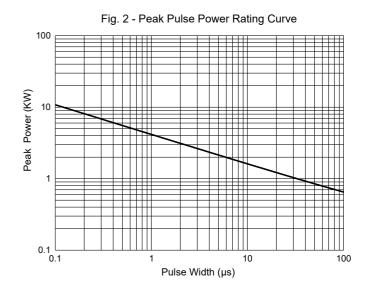
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

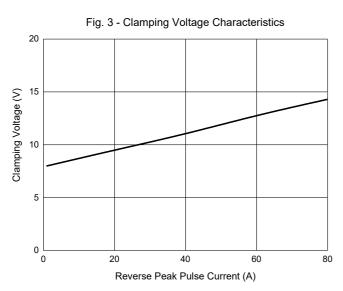
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μΑ
Forward Voltage	V _F	I _F =10mA			1.2	V
Clamping Voltage	V _C	I _{PP} =40A, t _P =8/20μs			12	V
Clamping Voltage	V _C	I _{PP} =80A, t _P =8/20μs			15	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			700	pF

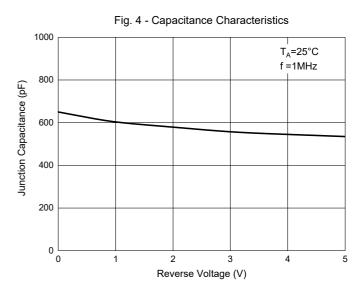


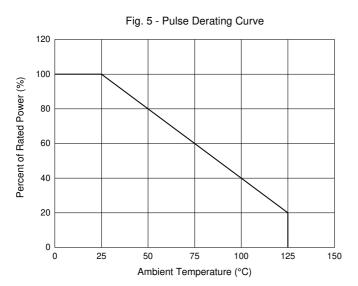
Curve Characteristics













Ordering Information

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

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