

Features

- Uni-Directional ESD Protection of Eight Lines
- · Low Capacitance
- Low Clamping Voltage
- · Moisture Sensitivity Level 1
- · 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)

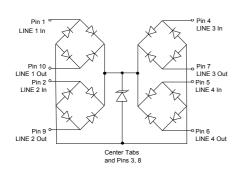
Maximum Ratings

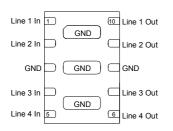
IEC61000-4-2 (ESD)	Air	±30KV	
1EC01000-4-2 (E3D)	Contact	±30KV	
Peak Pulse Current (8/20µs)	I _{PP}	40A	
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	1000W	
Operating Junction Temperature Range	Т	-55°C to +125°C	
Storage Temperature Range	T _{STG}	-55°C to +150°C	

Note:

- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

Internal Structure

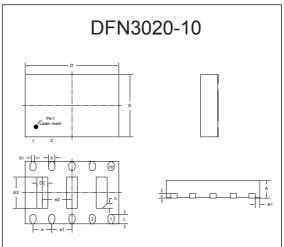




Marking Code

3374N YYWW

ESD Protection Device



DIMENSIONS						
	INCH		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.020	0.024	0.500	0.600		
A1	0.000	0.002	0.000	0.050		
b	0.006	0.010	0.150	0.250		
b1	0.006		0.140		TYP	
С	0.006		0.150		TYP	
D	0.114	0.122	2.900	3.100		
D2	0.012	0.016	0.300	0.400		
е	0.024		0.600		TYP	
e1	0.026		0.6	0.650		
e2	0.037		0.950		TYP	
E	0.075	0.083	1.900	2.100		
E2	0.037	0.041	0.950	1.050		
L	0.010	0.014	0.250	0.350		
h	0.004	0.008	0.100	0.200		

SUGGESTED SOLDER PAD LAYOUT

1500 - 0.5

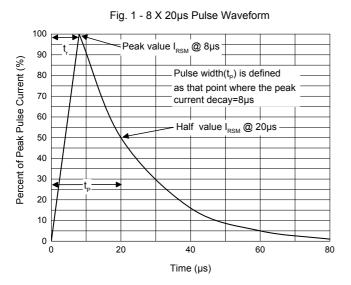


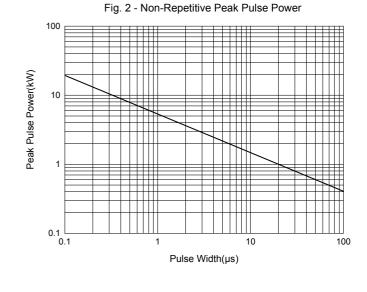
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

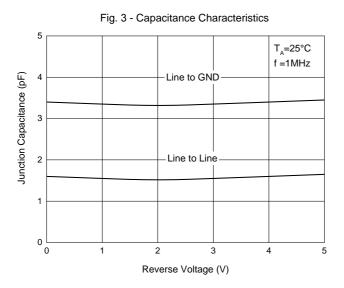
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Punch-Through Voltage	V _{PT}	I _τ =2μA	3.5			V
Snap-Back Voltage	V _{SB}	I _{SB} =50mA	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.5	μΑ
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Any I/O Pin to Ground			5.5	V
Clamping Voltage	V _C	I _{PP} =10A, t _P =8/20μs, Any I/O Pin to Ground			10.5	V
Clamping Voltage	V _C	I _{PP} =25A, t _P =8/20μs, Any I/O Pin to Ground			18	V
Clamping Voltage	V _C	I _{PP} =40A, t _P =8/20μs, Line to Line (Two I/O Pins Connected Together on Each Line)			25	V
Junction Capacitance	Сл	V _R =0V, f=1MHz, Between I/O Pins		1.7	2.5	pF
Junction Capacitance	CJ	V _R =0V, f=1MHz, Any I/O Pin to Ground		3.8	5	pF

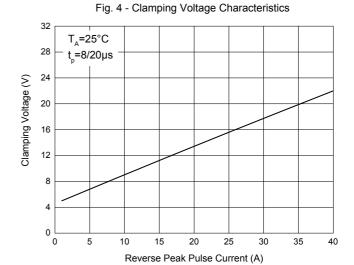


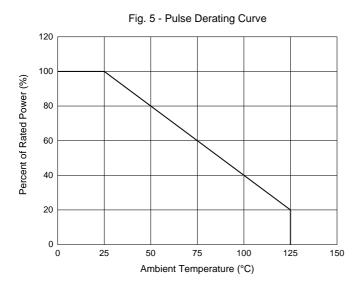
Curve Characteristics













Ordering Information

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

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