

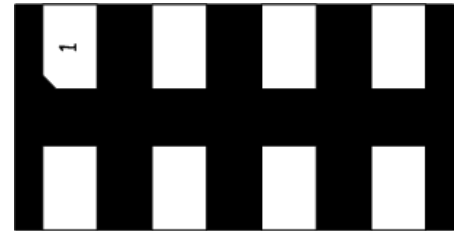
Features

- Protects two line pairs
- Ultra low leakage: nA level
- Ultra low operating voltage: 2.5V
- Ultra low clamping voltage
- Flow-through design simplifies layout
- Complies with following standards:
 - IEC 61000-4-2 (ESD): $\pm 30\text{kV}$ (Contact/Air)
 - IEC 61000-4-5 (Lightning) 10A (8/20 μs)
- RoHS Compliant

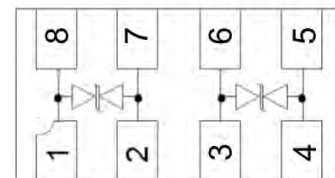
Applications

- LAN/WAN Equipment
- 10/100/1000 Ethernet
- RJ-45 connectors
- Industrial Controls
- Security Cameras
- Notebooks & Desktop Computers

Dimensions DFN2010-8



Pin Configuration



Mechanical Characteristics

- Molding Compound Flammability Rating : UL 94V-O
- Weight 1 Milligrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

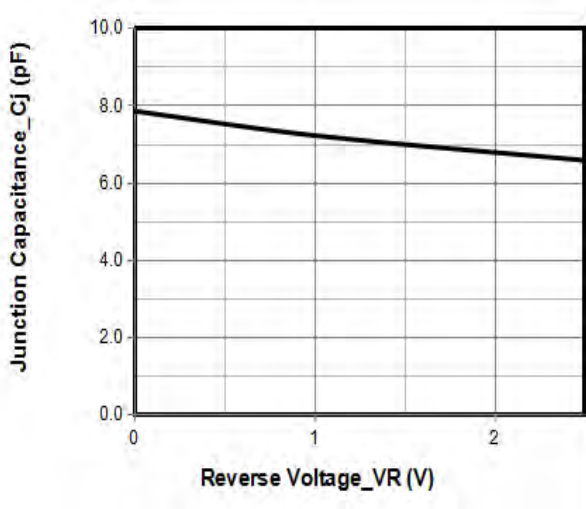
Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	P _{pp}	100	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 30	Kv
ESD per IEC 61000-4-2 (Contact)		± 30	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

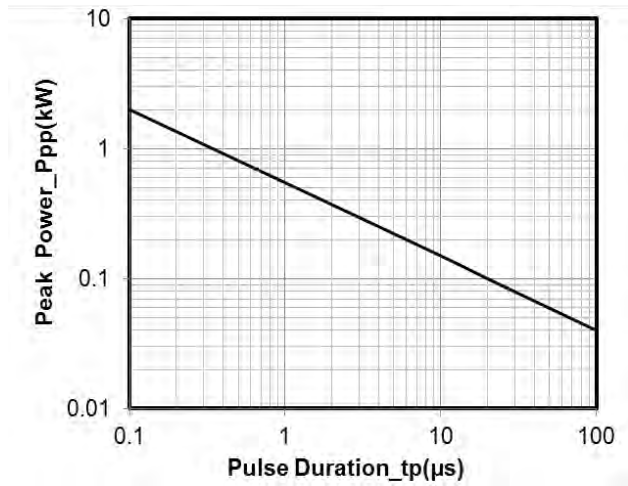
Electrical Characteristics (TA=25°C unless otherwise specified)

Part Number	Device Marking	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
ESD25CT8	2512P	2.5	2.7	1	5	10	10	0.2	8

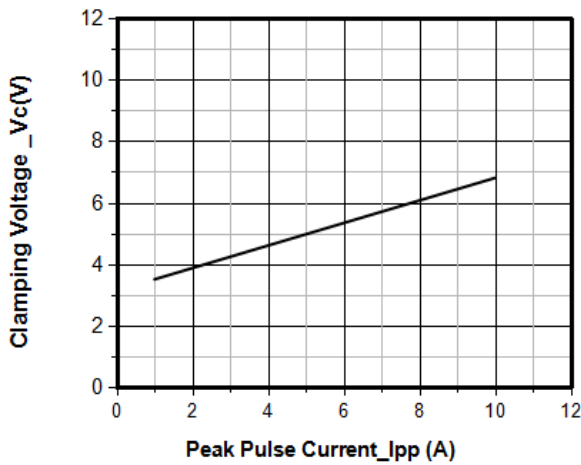
Typical Performance Characteristics (TA=25°C unless otherwise Specified)



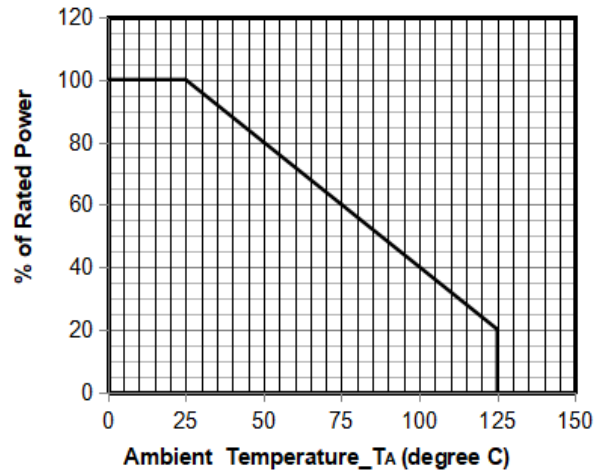
Junction Capacitance vs. Reverse Voltage



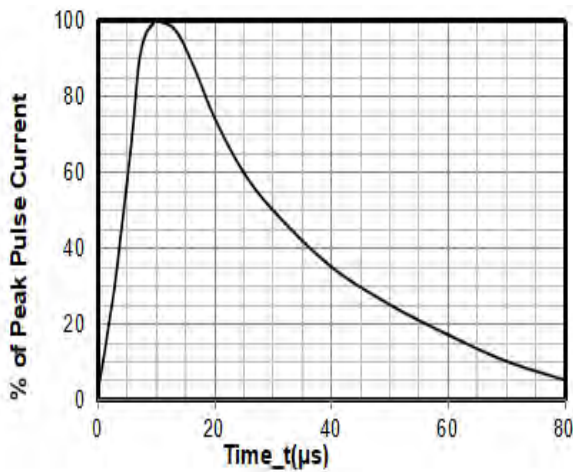
Peak Pulse Power vs. Pulse Time



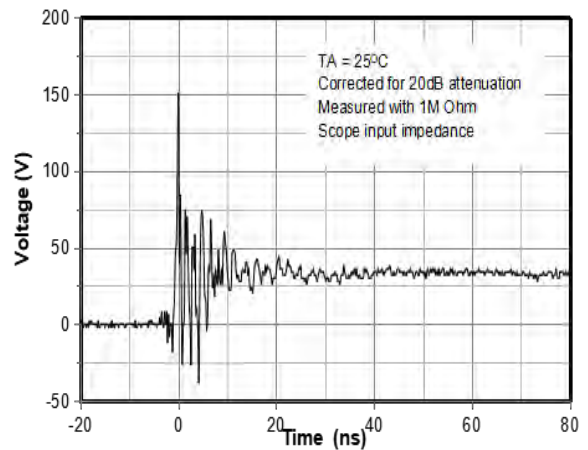
Clamping Voltage vs. Peak Pulse Current



Power Derating Curve



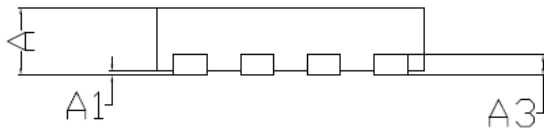
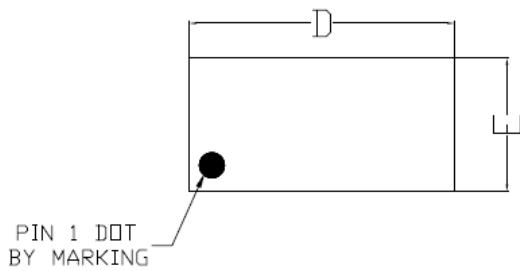
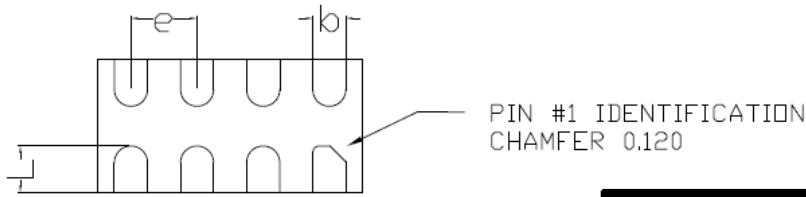
8 X 20μs Pulse Waveform



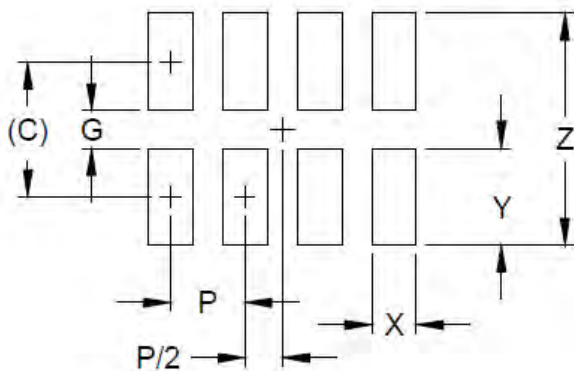
ESD Clamping Voltage

8 kV Contact per IEC61000-4-2

DFN2010-8 PACKAGE OUTLINE & DIMENSIONS



COMMON DIMENSIONS(MM)			
PKG.	X2:EXTREMA THIN		
REF.	MIN.	NOM.	MAX
A	>0.30	-	0.40
A1	0.00	-	0.05
A3	0.125REF.		
D	1.95	2.00	2.05
E	0.95	1.00	1.05
L	0.25	0.35	0.45
b	0.20	0.25	0.30
e	0.50Bsc		



DIMENSIONS	
DIM	MILLIMETERS
C	(0.90)
G	0.25
P	0.50
X	0.30
Y	0.65
Z	1.55