



Features

- Transient protection for high-speed data lines
- IEC 61000-4-2 (ESD) $\pm 30\text{kV}$ (Contact)
 $\pm 30\text{kV}$ (Air)
- Peak power dissipation: 1800W (8/20 μs)
- Working voltages : 5V
- Ultra-small package (1.6mm $\times$ 1.0mm $\times$ 0.5mm)
- Solid-state silicon technology
- Low clamping voltage



DFN1610-2L

Applications

- Power management
- Power supply protection



Circuit Diagram

Ordering Information

Product ID	Pack	Qty(PCS)
PSUR1610DNV05	DFN1610-2L	10000

Absolute Maximum Ratings

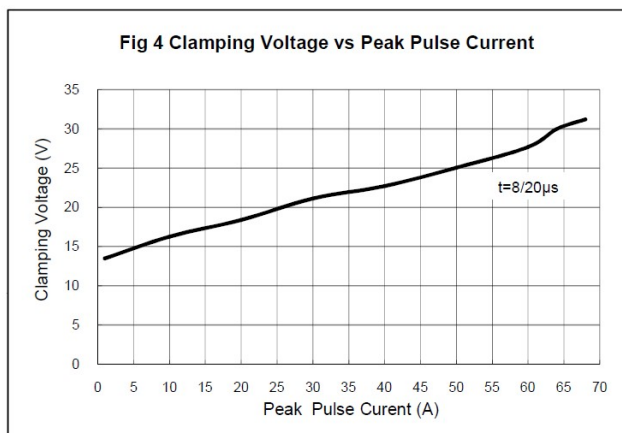
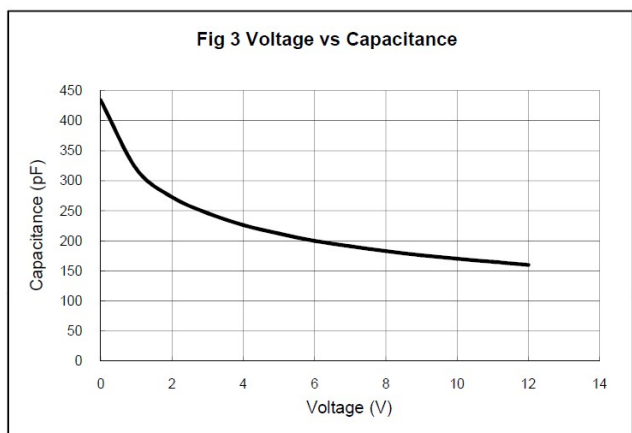
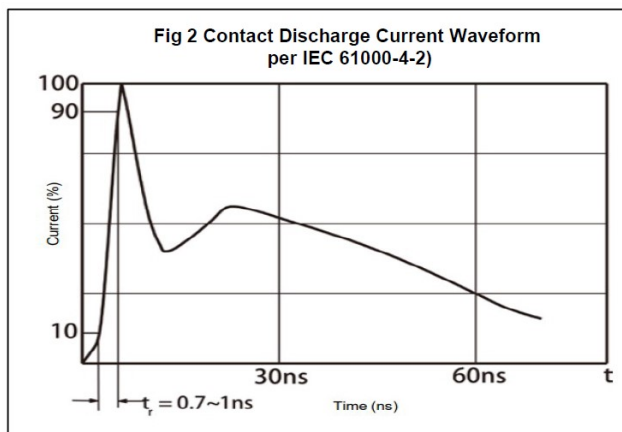
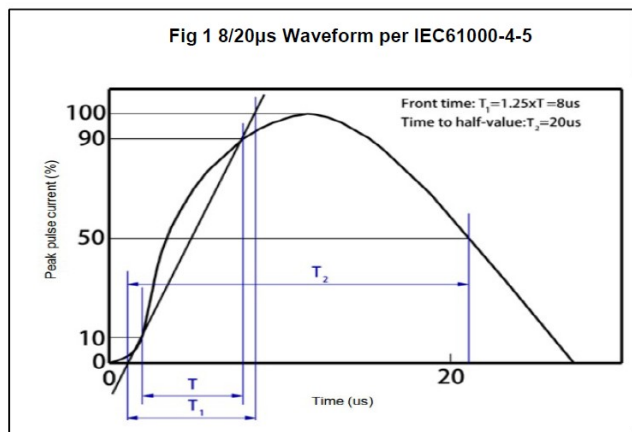
Parameters	Symbol	Value	Unit
Peak Pulse Power (tp=8/20 μs waveform)	P _{PP}	1800	W
Peak Pulse Current (8/20 μs)	I _{PP}	120	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	± 30 ± 30	KV
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C



Electrical Characteristics

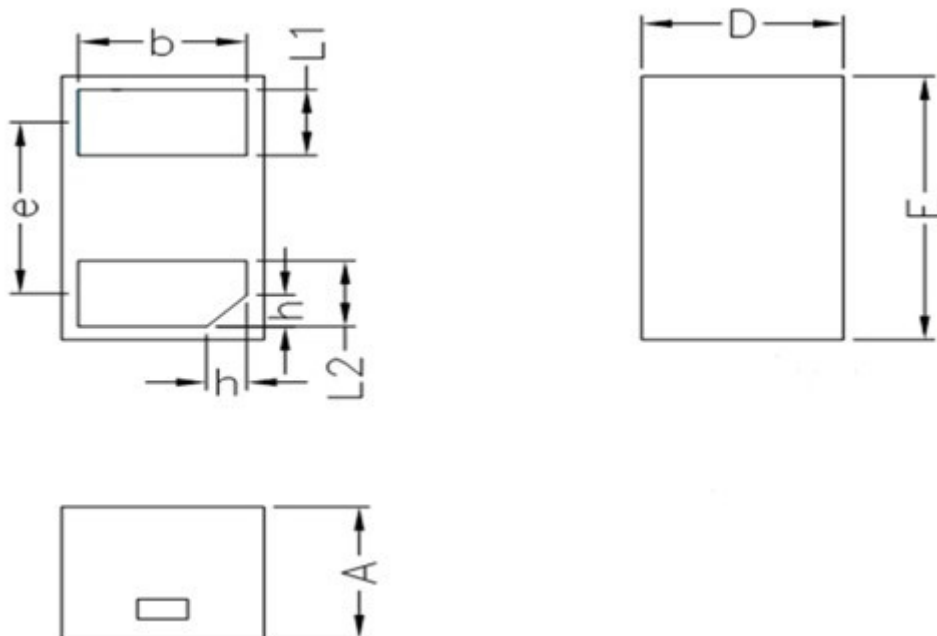
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_R = 1mA$	6.5			V
Reverse Leakage Current	I_R	$V_R = 10V$			1.0	μA
Clamping voltage	V_C	$I_{PP} = 10A, T_P = 8/20\mu s$			8.5	V
Clamping voltage	V_C	$I_{PP} = 120A, T_P = 8/20\mu s$			15	V
Junction capacitance	C_J	$V_R = 0V, f = 1MHz$		650	700	pF

Typical Characteristics





DFN1610-2L Package



COMMON DIMENSION(mm)			
REF	Min	Nom	Max
D	0.95	1.00	1.05
E	1.55	1.60	1.65
L1	0.35	0.40	0.45
L2	0.35	0.40	0.45
b	0.75	0.80	0.85
e	1.09BSC		
A	0.45	0.50	0.55
h	0.15	0.20	0.25



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