

RoHS Device
Halogen Free



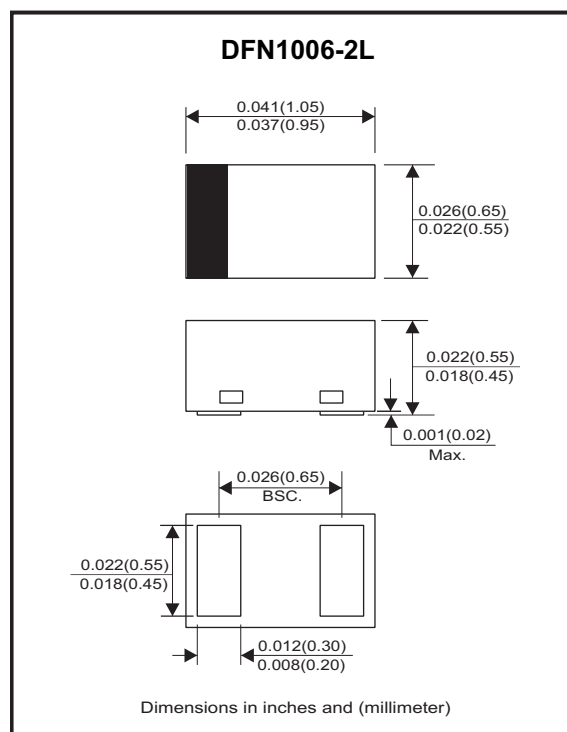
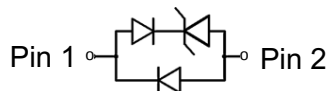
Features

- Uni-directional ESD protection.
- IEC61000-4-2 Level 4 ESD protection.
- Surface mount package.
- Low capacitance.
- Low Leakage current.
- High component density.

Mechanical data

- Case: DFN1006-2L/0402 standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Mounting position: Any.
- Weight: 0.001 gram(approx.).

Circuit diagram

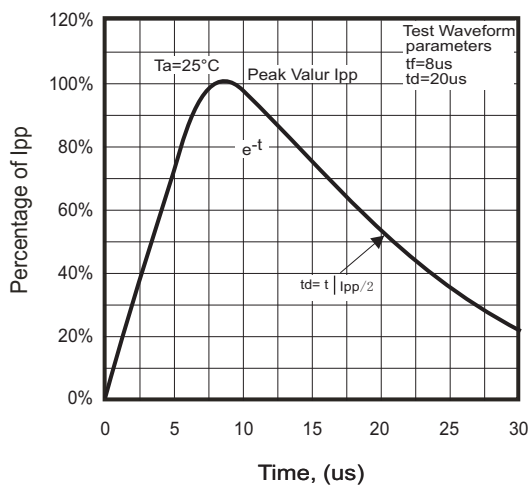
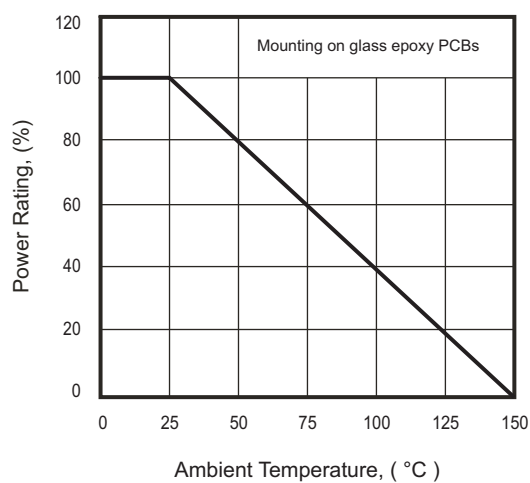
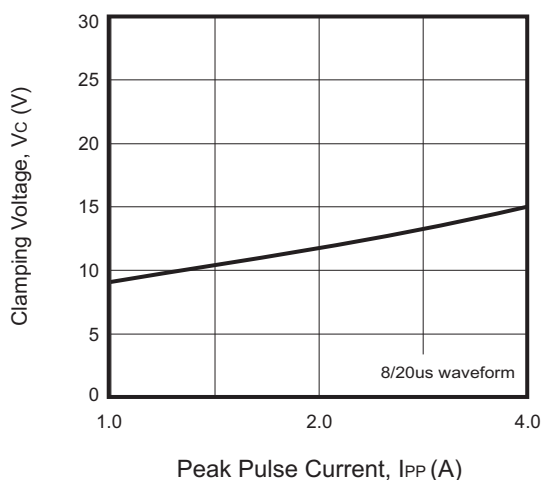
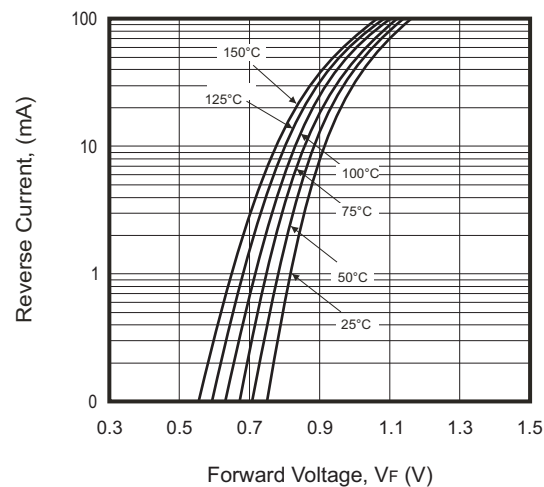
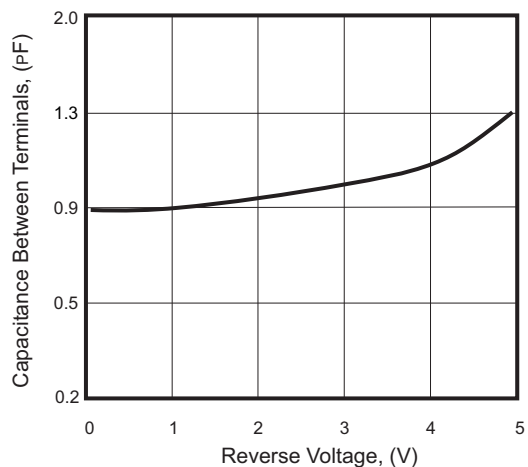


Maximum Rating (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

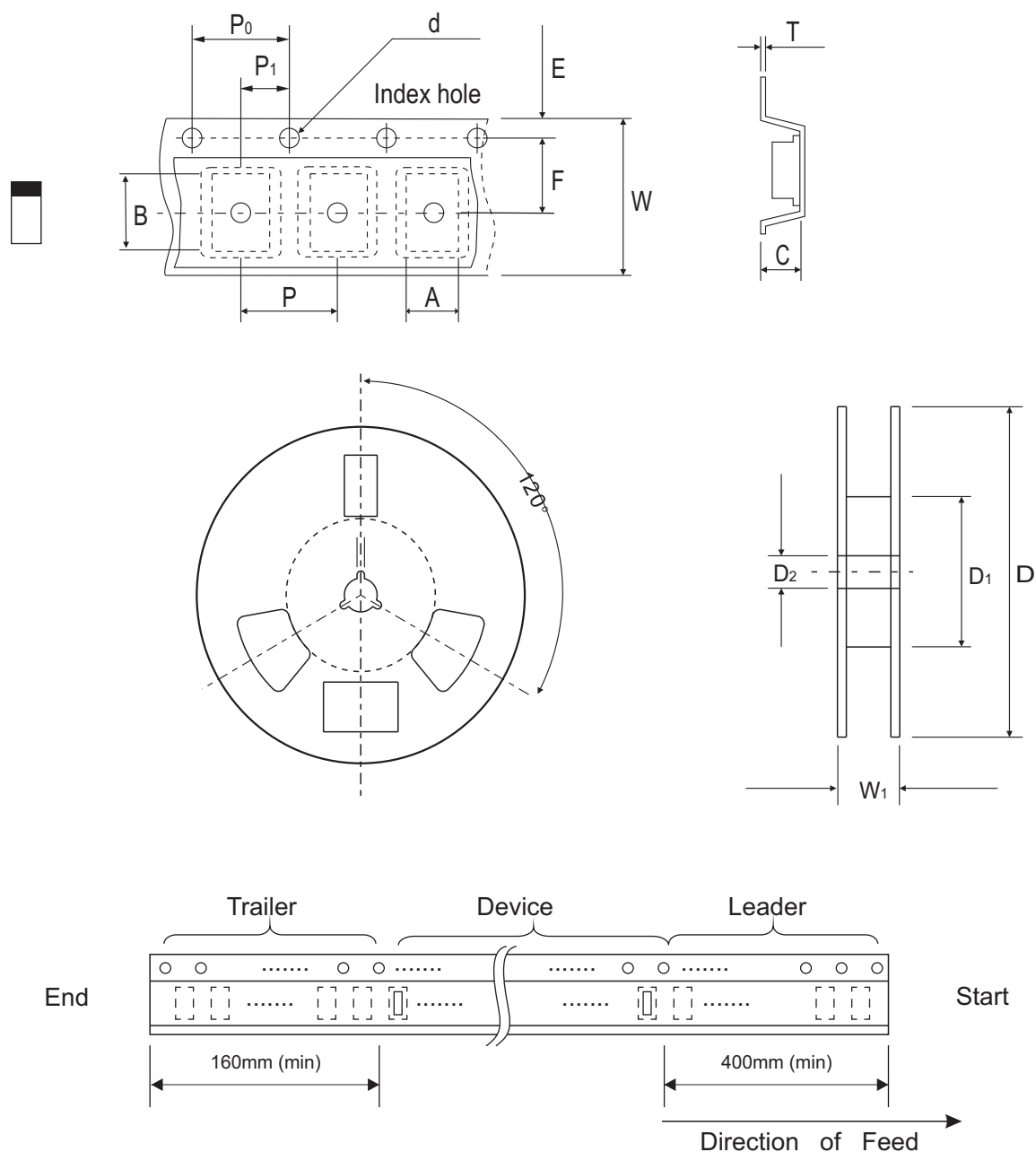
Parameter	Conditions	Symbol	Value	Unit
Peak pulse power	$T_P = 8/20\mu\text{s}$	P_{PP}	60	W
Peak pulse current	$T_P = 8/20\mu\text{s}$	I_{PP}	4	A
ESD capability	IEC 61000-4-2(air) IEC 61000-4-2(contact)	ESD	± 20 ± 20	kV
Operation temperature range		T_j	$-55 \sim +150$	$^{\circ}\text{C}$
Storage temperature range		T_{STG}	$-55 \sim +150$	$^{\circ}\text{C}$

Electrical Characteristics (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Working peak reverse voltage		V_{RWM}			5	V
Forward voltage	$I_F = 10\text{mA}$	V_F			1.5	V
Diode breakdown voltage	$I_T = 1\text{mA}$	V_{BR}	6.0			V
Reverse current	$V_{RWM} = 5\text{V}$	I_R			0.5	μA
Clamping voltage	$I_{PP} = 1\text{A}, T_P = 8/20\mu\text{s}$ $I_{PP} = 4\text{A}, T_P = 8/20\mu\text{s}$	V_C			11 15	V
Junction capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	C_J		0.9	1.3	pF

RATING AND CHARACTERISTIC CURVES (ESD5341N)
Fig.1 - 8/20us Peak Pulse Current Waveform Acc. IEC 61000-4-5

Fig.2 - Power Rating Derating Curve

Fig.3 - Clamping Voltage Vs. Peak Pulse Current

Fig.4 - Forward Voltage vs. Forward Current

Fig.5 - Typical Capacitance Between Terminals Characteristics


Reel Taping Specification

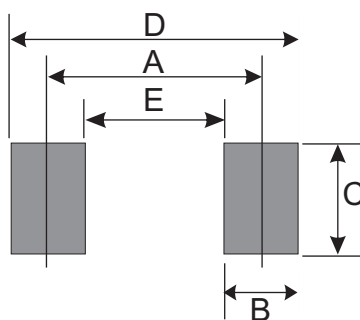


DFN1006-2L	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	0.75 ± 0.05	1.17 ± 0.05	0.65 ± 0.05	1.50 + 0.10 - 0	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.030 ± 0.002	0.046 ± 0.002	0.026 ± 0.002	0.059 + 0.004 - 0	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

DFN1006-2L	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.20 + 0.02 - 0.05	8.00 ± 0.20	12.00 + 0.50 - 0
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.008 + 0.001 - 0.002	0.315 ± 0.008	0.472 + 0.020 - 0

Suggested PAD Layout

SIZE	DFN1006-2L	
	(mm)	(inch)
A	0.70	0.028
B	0.40	0.016
C	0.60	0.024
D	1.10	0.043
E	0.30	0.012



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DFN1006-2L	10,000	7