

Low Capacitance ESD Protection 24 V

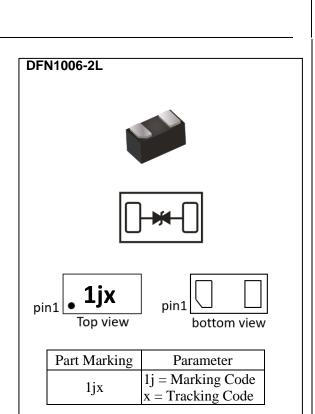
Voltage

Features

- IEC61000-4-2(ESD) : ±21kV Air, ±21kV Contact
- IEC61000-4-5(Lightning) : 10A (8/20uS)
- Low leakage current, maximum of 0.5uA at rated voltage
- Low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams



Applications • Thunderbolt

- USB 3.0, 3.1 and 3.2
- Type-C connector CC/SBU
- Consumer electronics

Maximum Ratings and Thermal Characteristics (T_A = 25^oC unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	λ/	±21	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±21		
Typical Thermal Resistance ^(Note 1)	Reja	430	°C/W	
Operating Junction Temperature Range	TJ	-55~125	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	



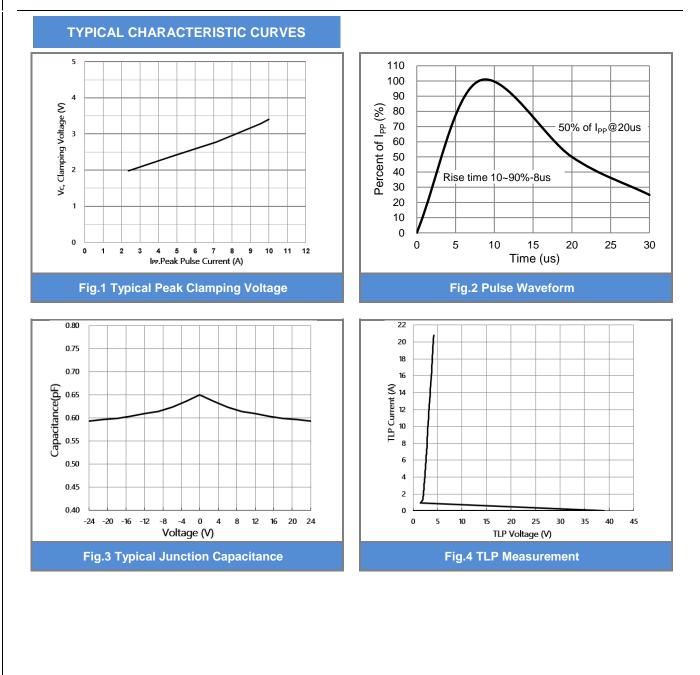
Electrical Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage ^(Note 2)	V _{RWM}	Pin1 to Pin2	-	-	24	V
Reverse Breakdown Voltage	VBR	I _{BR} = 10uA, Pin1 to Pin2	28	-		V
Reverse Leakage Current	I _R	$V_{RWM} = \pm 24V$, Pin1 to Pin2	-	0.4	0.5	uA
Surge Clamping Voltage (8/20us)	Vcl	IPP = 10A, Pin1 to Pin2	-	3.4	4.4	V
Clamping Voltage TLP (tperiod=100ns,tr=1ns) ^(Note 3)	VcL	$I_{TLP} = 16A$, Pin1 to Pin2	-	3.8	-	V
Off State Junction Capacitance (Note 4)	CJ	V _R =0V, f=1MHz, Pin1 to Pin2	-	0.65	0.8	pF

NOTES :

- 1. Mounted on a FR4 PCB, Single-sided copper, mini pad.
- 2. A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.
- 3. Testing using Transmission Line Pulse (TLP) conditions: Z0 = 50 Ω , t_P = 100 ns.
- 4. This parameter is guaranteed by design.
- This snap-back behavior strongly reduces the clamping voltage to the system behind the ESD protection during an ESD event. Do not connect unlimited DC current sources to the data lines to avoid the ESD protection device maintain in snap-back state after exceeding breakdown voltage.



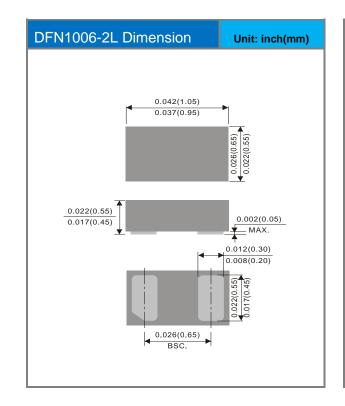


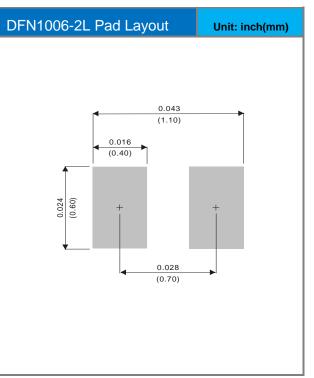


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PS150M-D62	DFN1006-2L	10K pcs / 7" reel	1j

Packaging Information & Mounting Pad Layout







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