VERY LOW CAPACITANCE ESD Protection

Voltage

Features

- IEC61000-4-2(ESD): ±15 kV Air, ±8 kV Contact
- IEC61000-4-4(EFT): 20 A(5/50 ns)
- IEC61000-4-5(Lightning): 2 A(8/20 uS)

5 V

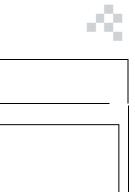
- Low leakage current, maximum of 0.1uA at rated voltage
- Low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: Molded plastic, DFN1006-2L
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00002 ounces, 0.0006 grams

Maximum Ratings and Thermal Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	V	±15	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±8		
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





DFN1006-2L







Electrical Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

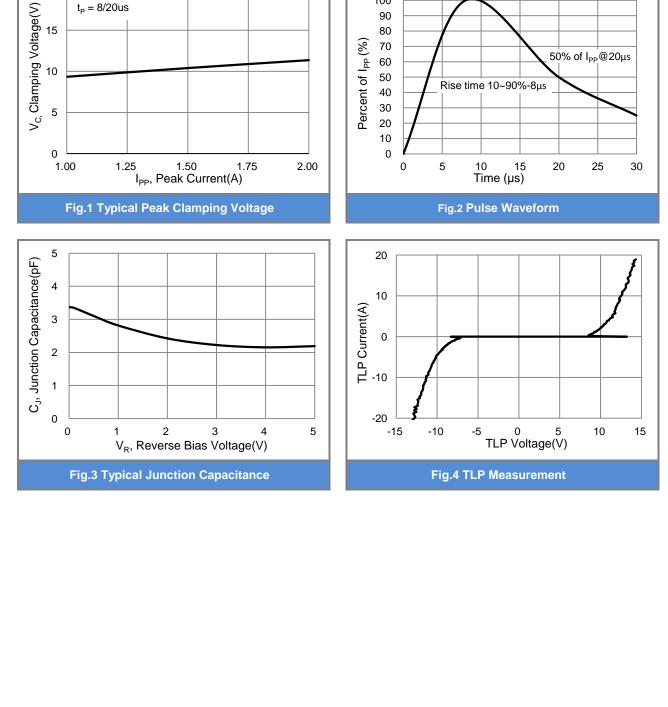
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	$V_{RWM}^{(1)}$	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 1 mA	6	-	9.5	V
Reverse Leakage Current	I _R	$V_R = 5 V$	-	-	0.1	uA
Clamping Voltage	V _{CL}	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{ us}$	-	-	12	V
		$I_{PP} = 2 \text{ A}, t_P = 8/20 \text{ us}$	-	-	15	
Clamping Voltage TLP	V _{CL} ⁽²⁾	I _{PP} = 8 A, t _P = 100 ns	-	12.1	-	V
		I _{PP} = 16 A, t _P = 100 ns	-	13.7	-	
Dynamic Resistance	R _{DYN}	t _P = 100 ns	-	0.2	_	Ω
Off State Junction Capacitance	CJ	0 Vdc Bias f = 1 MHz	-	-	3.5	pF

NOTES:

1. 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.

2. Testing using Transmission Line Pulse (TLP) conditions: Z0 = 50 Ω , t_P = 100 ns.

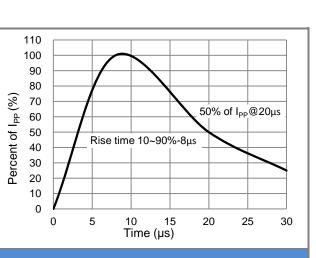




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PEC2305M1Q

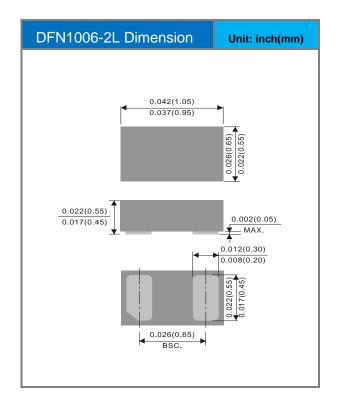
TYPICAL CHARACTERISTIC CURVES

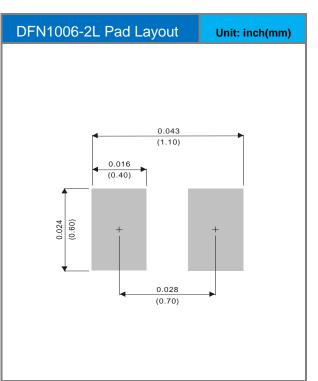


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC2305M1Q_R1_00001	DFN1006-2L	10K / 7" Reel	HG	Halogen Free

Packaging Information & Mounting Pad Layout







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