

ESD Protection

Voltage

Features

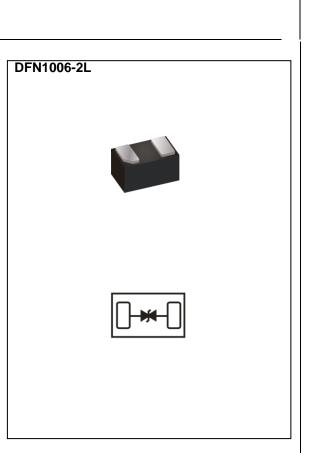
- IEC61000-4-2(ESD): ± 30 kV Air, ± 30 kV Contact
- IEC61000-4-4(EFT): 40 A(5/50 ns)
- IEC61000-4-5(Lightning): 5 A(8/20 uS)

3.3 V

- Low leakage current, maximum of 1uA at rated voltage
- Ultra low capacitance
- 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 ($T_A = 25 \degree C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	± 30		
ESD IEC61000-4-2(Contact)	V _{ESD}	± 30	kV
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





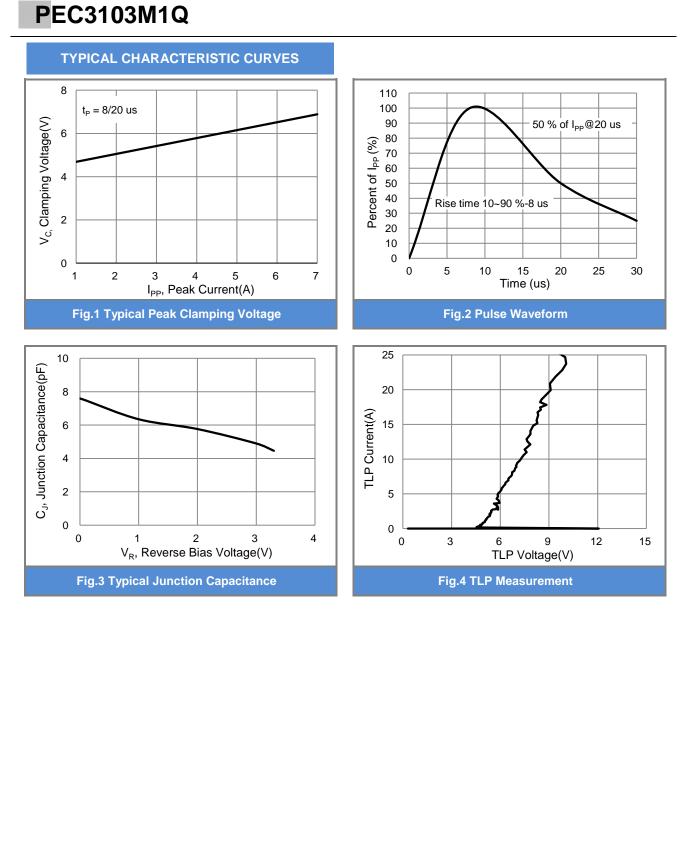
Electrical Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	3.3	V
Punch-Trough Voltage	V _{PT}	$I_{PT} = 2 \text{ uA}$	3.5	-	-	V
Snap-Break Voltage	V_{SB}	I _{SB} = 50 mA	2.8	-	-	V
Reverse Leakage Current	I _R	V _R = 3.3 V	-	-	0.5	uA
Clamping Voltage	N	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{ us}$	-	-	6	V
	V _{CL}	$I_{PP} = 5 \text{ A}, t_P = 8/20 \text{ us}$	-	-	8	
Clamping Voltage TLP (Note 1)	N ((1)	$I_{PP} = 8 \text{ A}, t_{P} = 100 \text{ ns}$	-	7	-	V
	$V_{CL}^{(1)}$	I _{PP} =16 A, t _P = 100 ns	-	8.5	-	
Dynamic Resistance	R_{DYN}	t _P = 100 ns	-	0.19	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f = 1MHz	-	-	10	pF

NOTES:

1. Testing using Transmission Line Pulse (TLP) conditions: $Z_0 = 50\Omega$, $t_P = 100$ ns.

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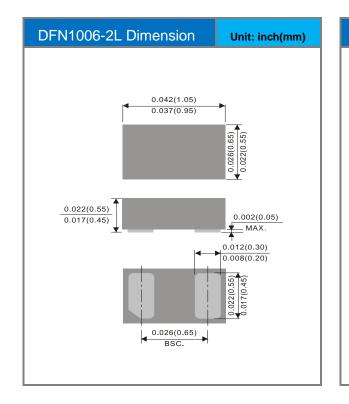


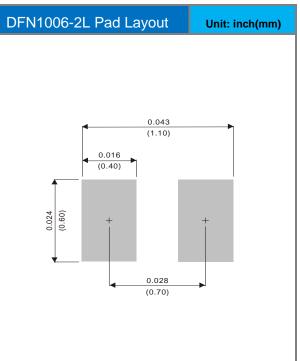


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC3103M1Q_R1_00001	DFN1006-2L	10K / 7" Reel	K3	Halogen Free

Packaging Information & Mounting Pad Layout







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