

PE3620M1Q

Hi-Surge ESD Protection

Voltage

Features

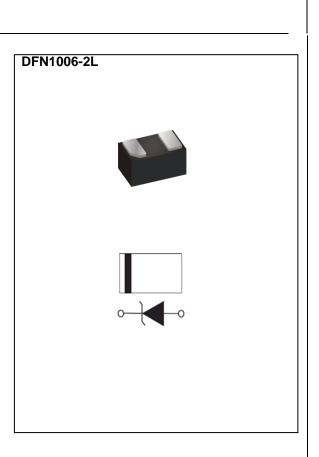
- IEC61000-4-2(ESD) : ± 30 kV Air, ± 30 kV Contact
- IEC61000-4-4(EFT) : 40 A(5/50 ns)
- IEC61000-4-5(Lightning) : 8 A(8/20 uS)

20 V

- Low leakage current, maximum of 100nA 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 ($T_A = 25 \degree C$ 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	





PE3620M1Q

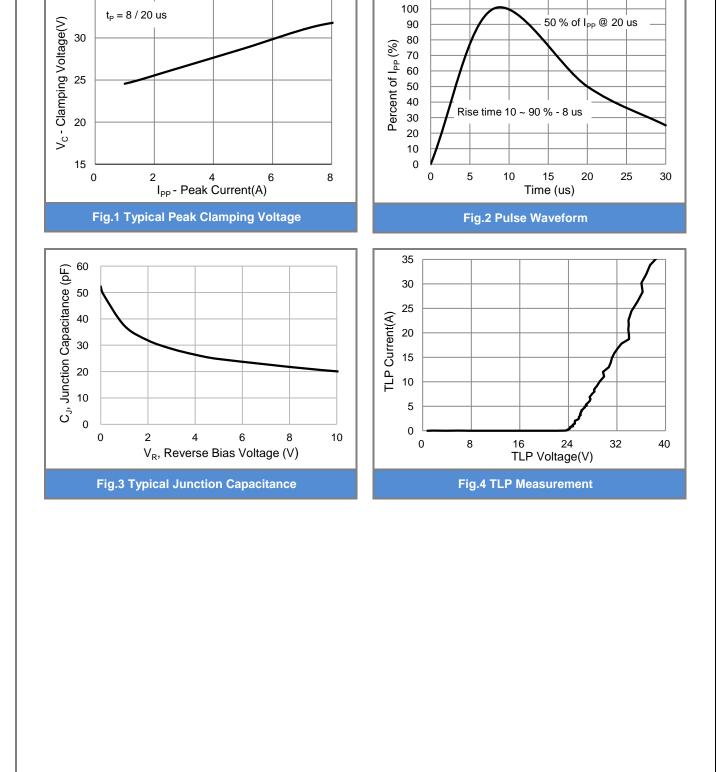
Electrical Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM} ⁽¹⁾	-	-	-	20	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 1 mA	22	-	25	V
Reverse Leakage Current	I _R	V _R = 20 V	-	-	100	nA
Clamping Voltage	V _{CL}	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{ us}$	-	-	27	V
		$I_{PP} = 8 \text{ A}, t_P = 8/20 \text{ us}$	-	-	35	
Clamping Voltage TLP	V _{CL} ⁽²⁾	$I_{PP} = 8 \text{ A}, t_{P} = 100 \text{ ns}$	-	28.3	-	V
		$I_{PP} = 16 \text{ A}, t_P = 100 \text{ ns}$	-	31.6	-	
Dynamic Resistance	R _{DYN}	t _P = 100ns	-	0.41	_	Ω
Off State Junction Capacitance	CJ	0 Vdc Bias f = 1MHz	-	-	60	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.



110



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PE3620M1Q

TYPICAL CHARACTERISTIC CURVES





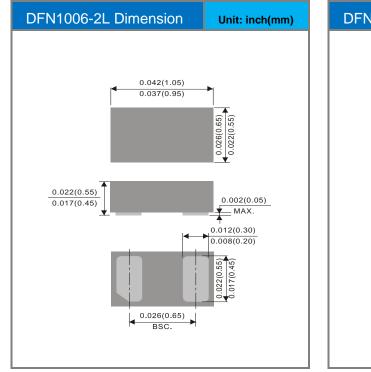


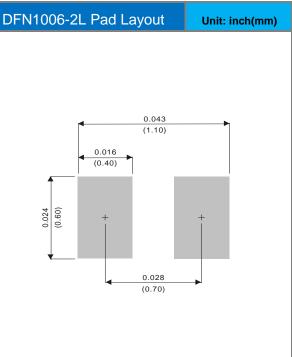
PE3620M1Q

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE3620M1Q_R1_00001	DFN1006-2L	10K / 7" Reel	HC	Halogen Free

Packaging Information & Mounting Pad Layout







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