

PE3105M2Q

Low Capacitance ESD Protection 5 V

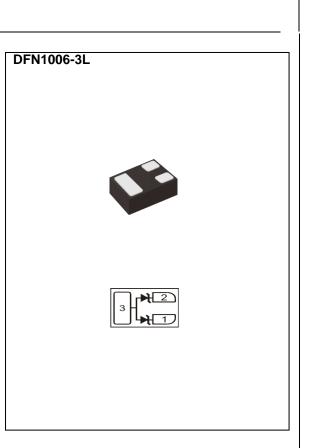
Voltage

Features

- IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact
- IEC61000-4-4(EFT): 20A(5/50ns)
- IEC61000-4-5(Lightning): 2A(8/20uS)
- Low leakage current, maximum of 0.5µA 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, DFN1006-3L
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00002 ounces, 0.0007 grams



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

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)		±15	kV	
ESD IEC61000-4-2(Contact)	Vesd	±8		
Operating Junction Temperature Range	TJ	-55~150	°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	V _{RWM} ⁽¹⁾	-	-	-	5	V
Reverse Breakdown Voltage	VBR	I _{BR} = 1mA	6.2	-	7.2	V
Reverse Leakage Current	I _R	$V_R = 5V$	-	-	0.5	uA
Clamping Voltage	VcL	I _{PP} = 1A, t _P = 8/20us	-	-	9	V
		I _{PP} = 2A, t _P = 8/20us	-	-	10	
Off State Junction Capacitance	CJ	0Vdc Bias f = 1MHz	-	-	15	pF

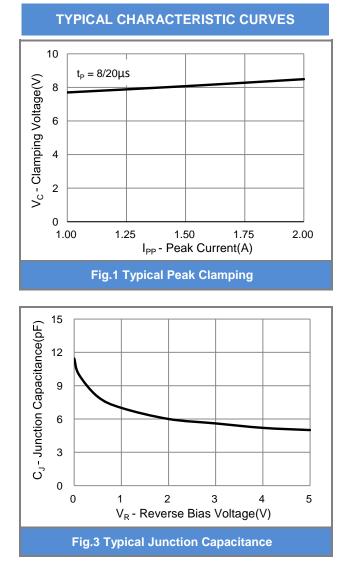
NOTES:

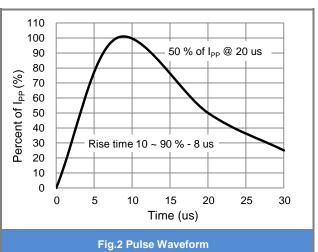
1. A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.

ΡΛΝ	JIT
	SEMI
	CONDUCTOR

4

PE3105M2Q





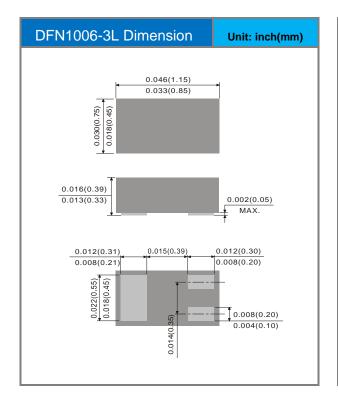


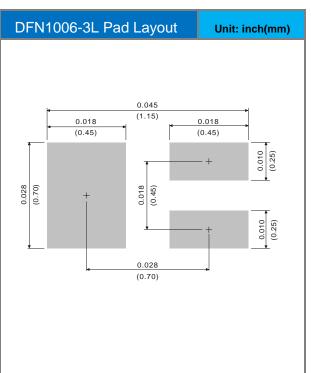
PE3105M2Q

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE3105M2Q_R1_00001	DFN1006-3L	10K / 7" Reel	AF	Halogen Free

Packaging Information & Mounting Pad Layout







PE3105M2Q

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit: PE3105M2Q_R1_00001