

PE1605M2AQ

Very Low Capacitance Esd Protection DFN1006-3L Voltage 5 V Features • IEC61000-4-2(ESD): ±20kV Air, ±15kV Contact IEC61000-4-4(EFT): 40A(5/50ns) IEC61000-4-5(Lightning): 4A(8/20uS) • Low leakage current, maximum of 50nA 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)	±20		
ESD IEC61000-4-2(Contact)	Vesd	±15	kV
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	5.5	-	-	V
Reverse Leakage Current	IR	$V_R = 5V$	-	-	50	nA
Clamping Voltage	Vcl	IPP = 1A, tP = 8/20us any I/O pins to GND	-	-	10	V
		I _{PP} = 4A, t _P = 8/20us any I/O pins to GND	-	-	15	
Clamping Voltage TLP	V _{CL} ⁽²⁾	I _{PP} = 8A, t _P = 100ns any I/O pins to GND	-	16	-	v
		I _{PP} = 16A, t _P = 100ns any I/O pins to GND	-	23.5	-	
Dynamic Resistance	R _{DYN}	t _P = 100ns	-	0.94	-	Ω
Off State Junction Capacitance	CJ	2.5Vdc Bias f=1MHz, any I/O pins to GND	-	0.3	0.35	pF
		2.5Vdc Bias f=1MHz, Between any I/O pins	-	0.2	-	pF

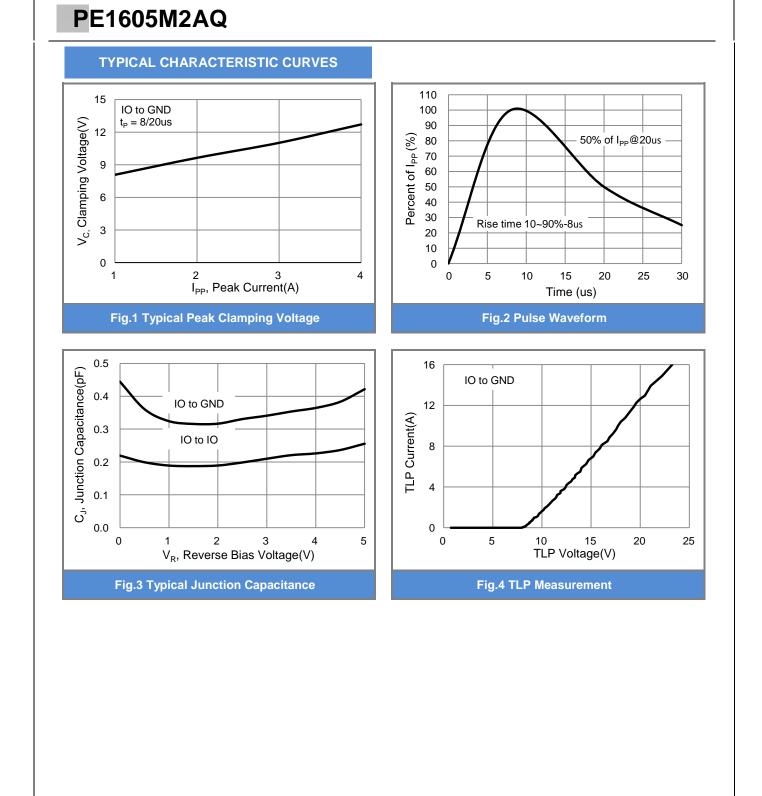
NOTES:

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 , tP = 100 ns.

February 12,2020

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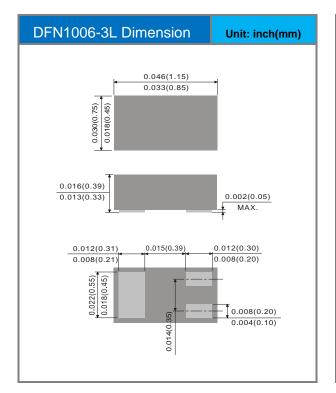


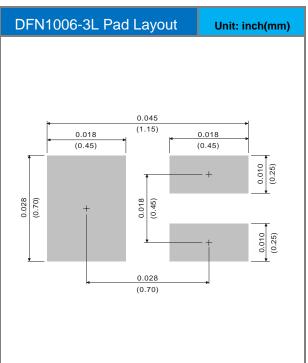
PE1605M2AQ

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1605M2AQ_R1_00001	DFN1006-3L	10K / 7" Reel	HB	Halogen Free

Packaging Information & Mounting Pad Layout







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