



ULTRA LOW CAPACITANCE ESD PROTECTION

Voltage

5 V

Features

- IEC61000-4-2(ESD): ± 20 kV Air, ± 15 kV Contact
- IEC61000-4-4(EFT): 40 A(5/50 ns)
- IEC61000-4-5(Lightning): 2 A(8/20 uS)
- Low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

- Case: DFN 2L, Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00004 ounces, 0.0011 grams

DFN 2L





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

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)		±20	kV
ESD IEC61000-4-2(Contact)	V _{ESD}	±15	
Operating Junction Temperature Range	T_J	-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⁾	-	-	1	5.5	V	
Reverse Breakdown Voltage	V_{BR}	I _{BR} = 1 mA	6.8	7.8	11.2	V	
Reverse Leakage Current	I _R	V _R = 5 V	-	ı	75	nA	
Clamping Voltage	V _{CL}	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{ us}$	-	1	12	V	
		$I_{PP} = 2A$, $t_P = 8/20$ us	-	11	14		
Clamping Voltage TLP	V _{CL} ⁽²⁾	$I_{PP} = 8A, t_P = 100 \text{ ns},$	-	14	-	.,	
		$I_{PP} = 16A$, $t_P = 100$ ns,	-	16	ı	V	
Dynamic Resistance	R_{DYN}	t _P = 100 ns	-	0.25	-	Ω	
Off State Junction Capacitance	CJ	0 Vdc Bias f = 1 MHz,	-	-	0.6	рF	

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: $Z0 = 50\Omega$, $t_P = 100$ ns.





TYPICAL CHARACTERISTIC CURVES

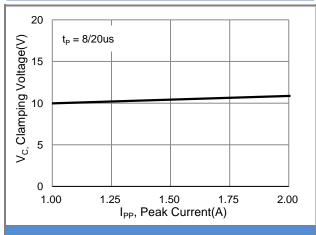


Fig.1 Typical Peak Clamping Voltage

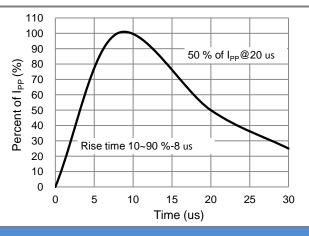


Fig.2 Pulse Waveform

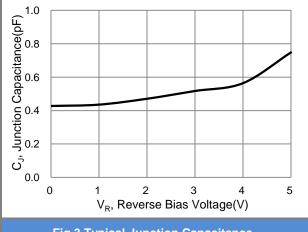


Fig.3 Typical Junction Capacitance

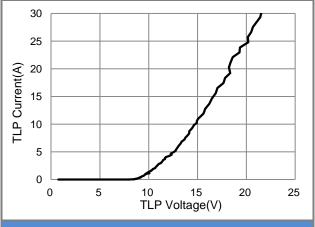


Fig.4 TLP Measurement

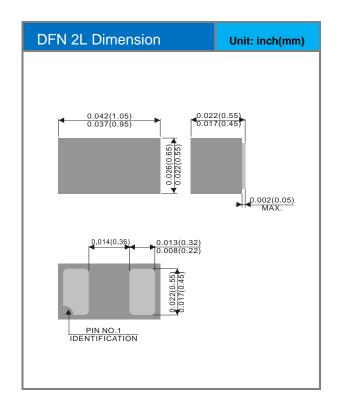


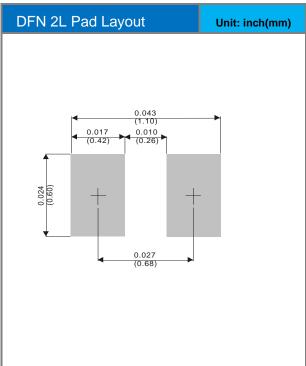


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC1605M1Q-AU_R1_000A1	DFN 2L	8K / 7" Reel	BF	Halogen Free

Packaging Information & Mounting Pad Layout









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