



VERY LOW CAPACITANCE ESD PROTECTION

Voltage

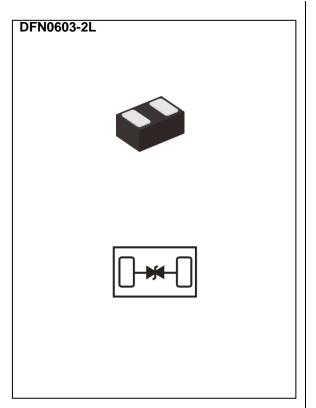
5 V

Features

- IEC61000-4-2(ESD): ±15kV Air, ±10kV Contact
- IEC61000-4-4(EFT): 20A(5/50ns)
- IEC61000-4-5(Lightning): 2A(8/20uS)
- 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, DFN0603-2L
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026



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

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	V	±15	14) /	
ESD IEC61000-4-2(Contact)	V _{ESD}	±10	kV	
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	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} = 1 mA	5.5	ı	10	V
Reverse Leakage Current	I _R	V _R = 5 V	-	ı	100	nA
Clamping Voltage	V _{CL}	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{ us}$	-	ı	12	V
		$I_{PP} = 2 \text{ A}, t_P = 8/20 \text{ us}$	-	-	15	
Clamping Voltage TLP	V _{CL} ⁽²⁾	$I_{PP} = 8 \text{ A}, t_{P} = 100 \text{ ns}$	-	12.1	-	V
		$I_{PP} = 16 \text{ A}, t_P = 100 \text{ ns}$	-	13.7	-	
Dynamic Resistance	R_{DYN}	t _P = 100 ns	-	0.2	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f = 1 MHz	-	-	3.5	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.





TYPICAL CHARACTERISTIC CURVES

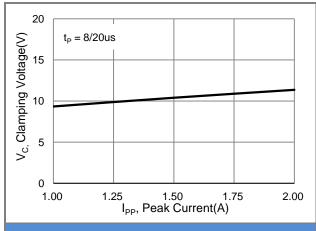


Fig.1 Typical Peak Clamping Voltage

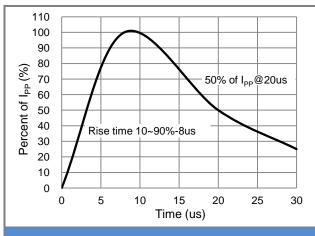


Fig.2 Pulse Waveform

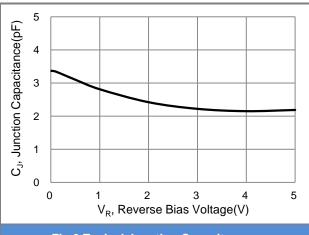
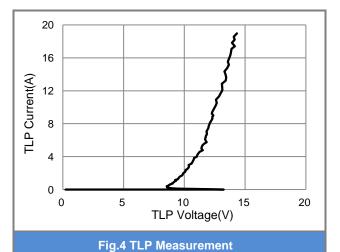


Fig.3 Typical Junction Capacitance



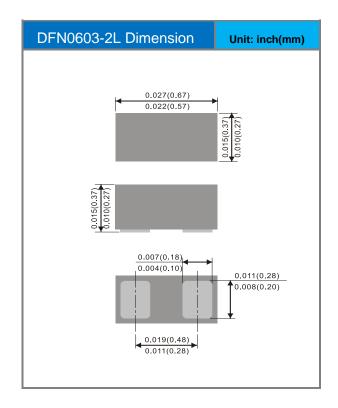


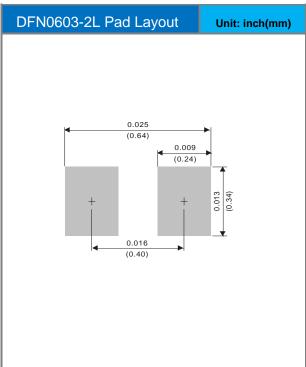


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC2305S1Q_R1_00001	DFN0603-2L	10K / 7" Reel	C5	Halogen Free

Packaging Information & Mounting Pad Layout





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