PE1805C4C6N ULTRA LOW CAPACITANCE ESD PROTECTION SOT-363 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): 5 A(8/20 uS) • 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, SOT-363 • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 • Approx. Weight: 0.0002 ounces, 0.006 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)	V _{ESD}	±15	kV
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





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Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

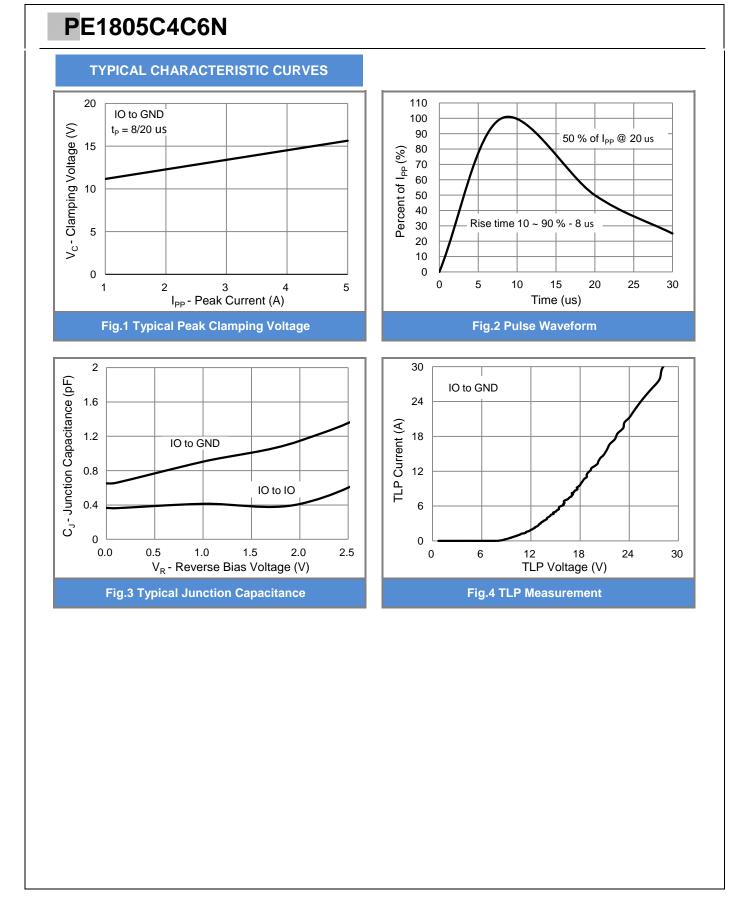
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Reverse Stand-Off Voltage	V _{RWM} ⁽¹⁾	-	-	-	5	V	
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 1mA, any I/O pins to Pin2	6.5	-	9.5	V	
Reverse Leakage Current	I _R	V _R =5V	-	-	1	uA	
Clamping Voltage	V _{CL}	I _{PP} = 1A, t _P = 8/20us, any I/O pins to Pin2	-	-	12	V	
		$I_{PP} = 5A$, $t_P = 8/20us$, any I/O pins to Pin2	-	-	20		
Clamping Voltage TLP	V _{CL} ⁽²⁾	I _{PP} = 8A, t _P = 100ns, any I/O pins to Pin2	-	17	-		
		I _{PP} = 16A, t _P = 100ns, any I/O pins to Pin2	-	21	-	V	
Dynamic Resistance	R _{DYN}	t _P = 100ns	-	0.5	-	Ω	
Off State Junction Capacitance	CJ	0Vdc Bias f = 1MHz, Between any I/O pins to Pin2	-	-	0.8	pF	
		0Vdc Bias f = 1MHz, Between any I/O pins	-	-	0.4		

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.

April 24,2018-REV.00





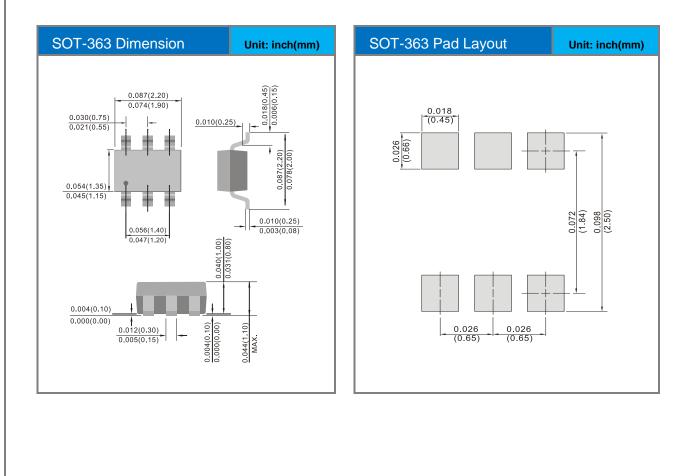


PE1805C4C6N

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1805C4C6N_R1_00001	SOT-363	3K / 7" Reel	C6N	Halogen Free

Packaging Information & Mounting Pad Layout





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PE1805C4C6N

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