PE1605C4E6

CONDUCTOR

ULTRA LOW CAPACITANCE ESD PROTECTION

Voltage

Features

ΡΛΝ

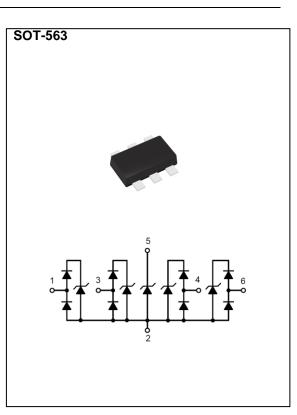
- IEC61000-4-2(ESD): ± 20 kV Air, ± 15 kV Contact
- IEC61000-4-4(EFT): 40 A(5/50 ns)
- IEC61000-4-5(Lightning): 4 A(8/20 uS)

5 V

- 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-563
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00009 ounces, 0.003 grams



Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ 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	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





Electrical Characteristics (T _A =	25° C unless otherwise noted)
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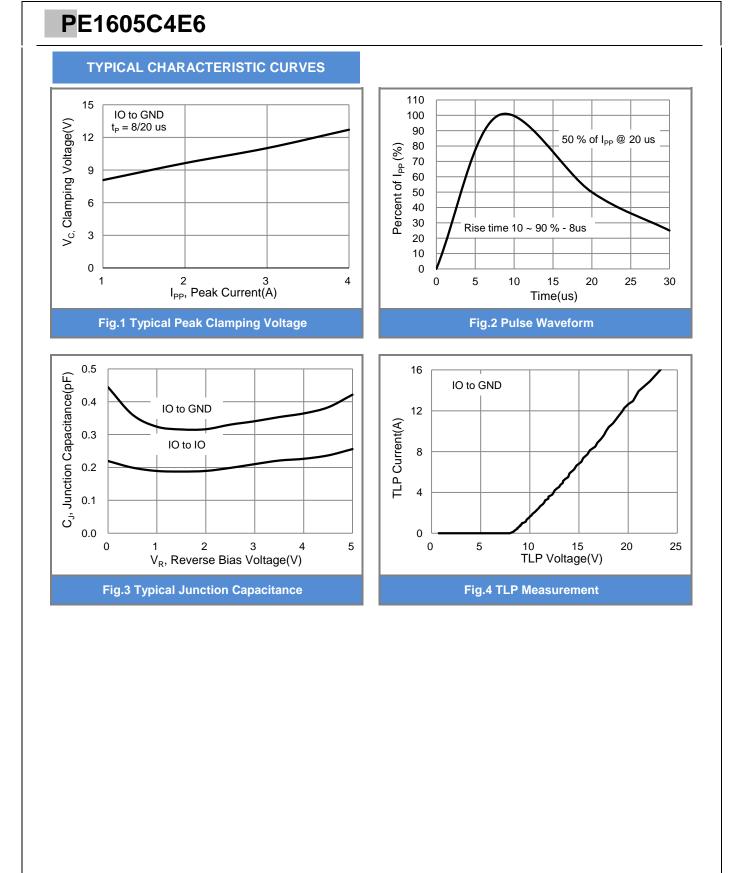
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Reverse Stand-Off Voltage	V _{RWM} ⁽¹⁾	-	-	-	5.5	V	
Reverse Breakdown Voltage	V_{BR} $I_{BR} = 1 \text{ mA, any I/O}$ pins to GND		6	6.9	-	V	
Reverse Leakage Current	I _R	$V_R = 5 V$	-	-	1	uA	
Clamping Voltage	V _{CL}	I _{PP} = 1 A, t _P = 8/20 us, any I/O pins to GND	-	-	10		
		$I_{PP} = 4A$, $t_P = 8/20$ us, any I/O pins to GND	-	-	15	V	
Clamping Voltage TLP	V _{CL} ⁽²⁾	I _{PP} = 8 A, t _P = 100 ns, any I/O pins to GND	-	16	-	V	
		I _{PP} = 16 A, t _P = 100 ns, any I/O pins to GND	-	23.5			
Dynamic Resistance	R _{DYN}	t _P = 100 ns	-	0.94	-	Ω	
Off State Junction Capacitance	CJ	0Vdc Bias f = 1 MHz, Between any I/O pins to GND	-	-	0.6	pF	
		0Vdc Bias f = 1 MHz, Between any I/O pins	-	-	0.3		

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 = 50Ω , t_P = 100 ns.

March 1,2018-REV.00







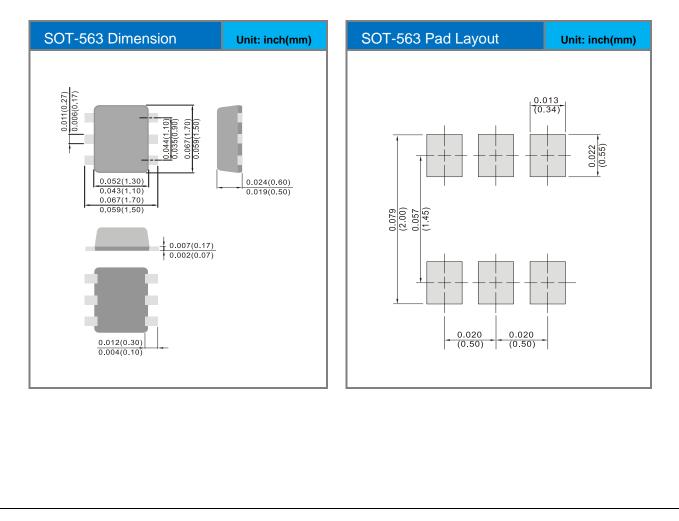


PE1605C4E6

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1605C4E6_R1_00001	SOT-563	4K / 7" Reel	КСС	Halogen Free

Packaging Information & Mounting Pad Layout





PE1605C4E6

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