



Ultra Low Capacitance ESD Protection

Voltage

5 V

Features

- IEC61000-4-2(ESD): ±20kV Air, ±15kV Contact Compliance
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 5A(8/20μS)
- Low leakage current, maximum 1μA at rated voltage
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std.. (Halogen Free)

Mechanical Data

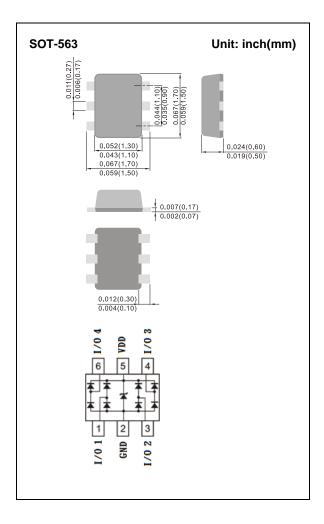
- Case: SOT-563, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026

Applications

- USB2.0 Data Line Protection
- Video Graphics Cards
- Monitors and Flat Panel Displays Notebook computers
- Digital Video Interface(DVI)
- 10/100/1000 Ethernet
- ATM Interfaces
- Control Signal Lines Protection

Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS	
ESD IEC61000-4-2(Air)		±20	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±15		
Operating Junction Temperature Range	TJ	-55 to +150	°C	
Storage Temperature Range	T _{STG}	-55 to +150	°C	







Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage (Note 1)	V_{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA, Pin5 to Pin2	6	-	9	V
Reverse Leakage Current	I _R	V _R =5.0V	-	-	1	μА
Forward Voltage	V_{F}	I _F =1mA, Pin2 to Pin5	-	-	1	V
Clamping Voltage	V _{CL}	I_{PP} =1A, t_P =8/20 μ s, any I/O pin to Pin2	-	-	12	V
		I _{PP} =5A, t _P =8/20μs any I/O pin to Pin2	-	-	20	
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	·

Note: 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.





TYPICAL CHARACTERISTIC CURVES

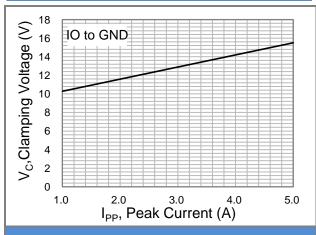


Fig.1 Typical Junction Capacitance

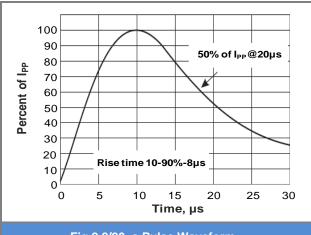


Fig.2 8/20µs Pulse Waveform

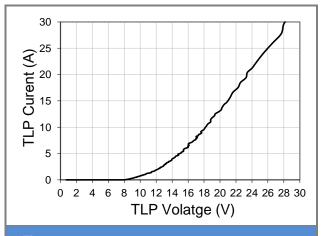


Fig.3 Transmission Line Pulsing (TLP) Measurement

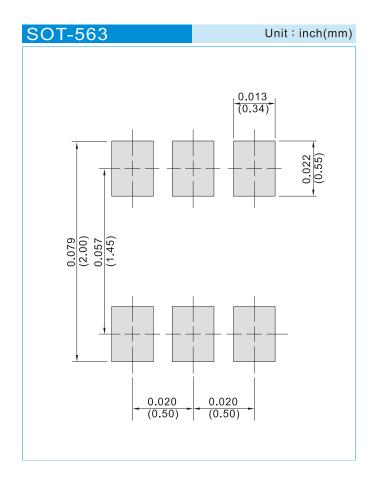




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1805C4E6_R1_00001	SOT-563	4K pcs / 7" reel	C2B	Halogen free
PE1805C4E6_R2_00001	SOT-563	10K pcs / 13" reel	C2B	Halogen free
PE1805C4E6_R1_00002	SOT-563	8K pcs / 7" reel	C2B	Halogen free
PE1805C4E6_R2_00002	SOT-563	20K pcs / 13" reel	C2B	Halogen free

MOUNTING PAD LAYOUT



December 9,2016-REV.00 Page 4





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are
 responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no
 representation or warranty that such applications will be suitable for the specified use without further testing or
 modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)