



ULTRA LOW CAPACITANCE ESD PROTECTION

Voltage

5 V

Features

• IEC61000-4-2(ESD): ±20kV Air, ±15kV Contact

• IEC61000-4-4(EFT): 40A(5/50ns)

• IEC61000-4-5(Lightning): 4A(8/20uS)

• Low clamping voltage

• Lead free in compliance with EU RoHS 2.0

• Green molding compound as per IEC 61249 standard

Mechanical Data

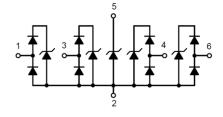
• Case: Molded plastic, SOT-23 6L

 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0005 ounces, 0.014 grams

SOT-23 6L





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

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	V	±20	14) /
ESD IEC61000-4-2(Contact)	V_{ESD}	±15	kV
Operating Junction Temperature Range	Τ _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⁾	-	-	-	5.5	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} = 1 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	V
		I_{PP} = 4A, t_P = 8/20 us, any I/O pins to GND	-	-	15	
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	С	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.





TYPICAL CHARACTERISTIC CURVES

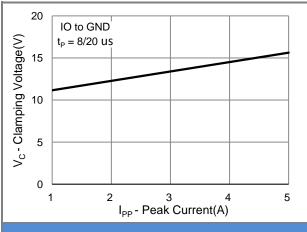


Fig.1 Typical Peak Clamping Voltage

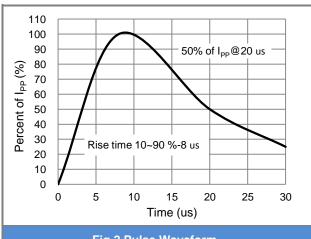


Fig.2 Pulse Waveform

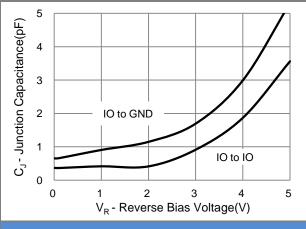


Fig.3 Typical Junction Capacitance

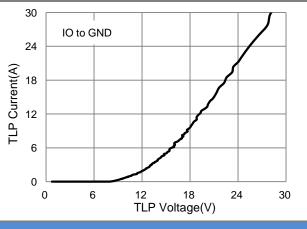


Fig.4 TLP Measurement

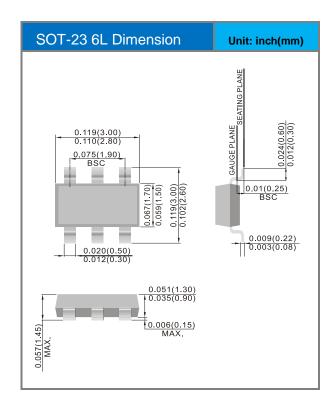


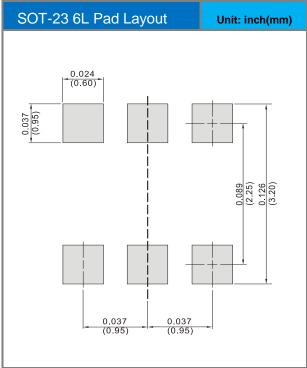


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1605C4A6_R1_00001	SOT-23 6L	3K / 7" Reel	KCC	Halogen Free

Packaging Information & Mounting Pad Layout









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)