SEMI CONDUCTOR



ΡΛΝ

5 V

Features

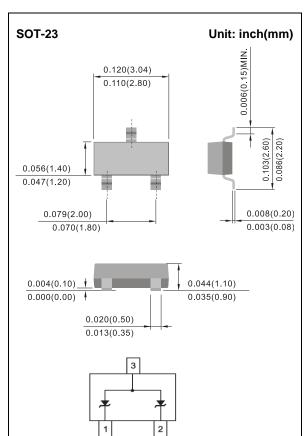
- IEC61000-4-2(ESD) : ±20kV Air, ±15kV Contact
- IEC61000-4-4(EFT) : 40A(5/50ns)
- IEC61000-4-5(Lightning) : 4A(8/20µS)
- Low leakage current, maximum of 50nA at rated voltage ٠
- Ultra low capacitance •
- Low clamping voltage •
- Lead free in compliance with EU RoHS 2.0 •
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: Molded plastic, SOT-23

Applications

- USB 3.0 Data Line Protection
- Mobile Phones and accessories
- Hand held portable •
- Digital Cameras
- **Computer Interfaces Protection** •
- Serial and Parallel Ports Protection
- **Control Signal Lines Protection**



Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS	
ESD IEC61000-4-2(Air)	N	±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	



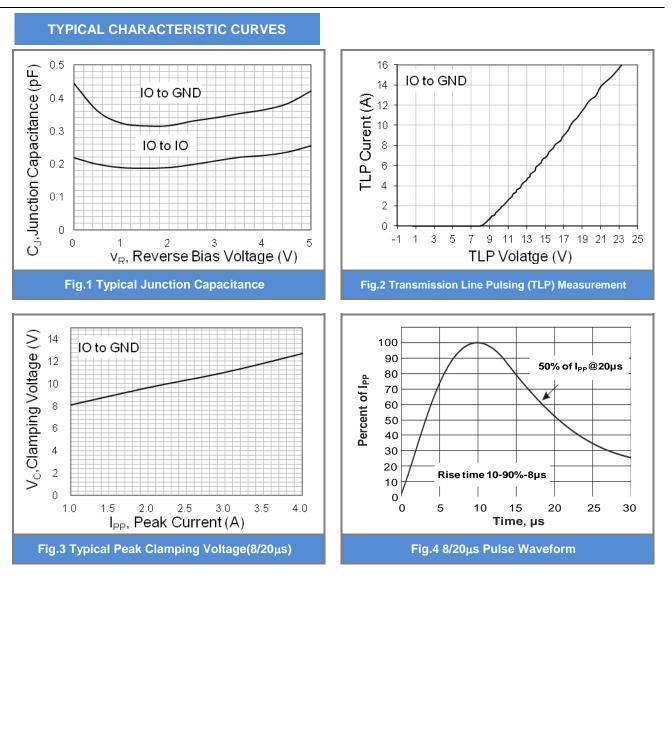
Electrical Characteristics

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	5.5	-	-	V
Reverse Leakage Current	I _R	V _R =5.0V	-	-	50	nA
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs, any I/O pins to GND	-	-	10	V
		I _{pp} =4A, t _p =8/20μs, any I/O pins to GND	-	-	15	V
Clamping Voltage TLP (Note 2)	V _{CL}	I _{PP} =8A, t _P =100ns, any I/O pins to GND	-	16	-	V
		I _{PP} =16A, t _P =100ns, any I/O pins to GND	-	23.5	-	V
Dynamic Resistance	R_{DYN}	t _P =100ns	-	0.94	-	Ω
Off State Junction Capacitance	CJ	2.5Vdc Bias f=1MHz, any I/O pins to GND	-	0.3	0.35	pF
		2.5Vdc Bias f=1MHz, Between any I/O pins	-	0.2	-	pF

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.
- 2. Testing using Transmission Line Pulse (TLP) conditions: $Z0 = 50\Omega$, $t_P = 100$ ns.

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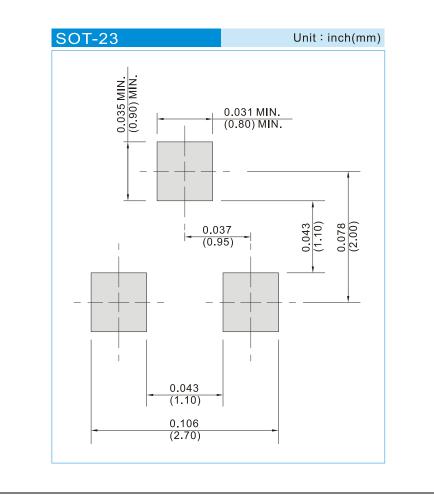




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1605C2A_R1_00001	SOT-23	3K pcs / 7" reel	KCC	Halogen free
PE1605C2A_R2_00001	SOT-23	12K pcs / 13" reel	КСС	Halogen free

Mounting Pad Layout



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