



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

AEC-Q101 qualified

Mechanical Data

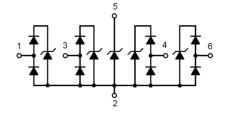
• Case: Molded plastic, SOT-23 6L

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

• Approx. Weight: 0.0005 ounces, 0.014 grams







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

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	V	±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)

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	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.





TYPICAL CHARACTERISTIC CURVES

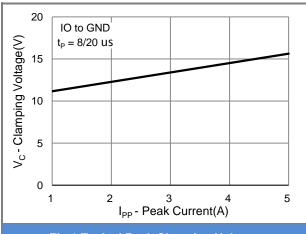


Fig.1 Typical Peak Clamping Voltage

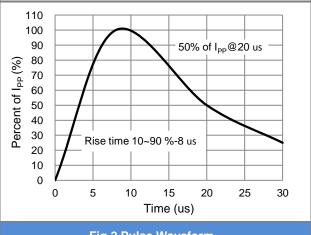


Fig.2 Pulse Waveform

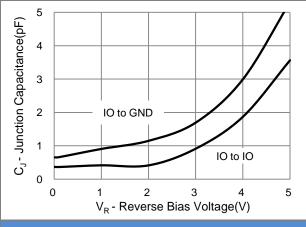
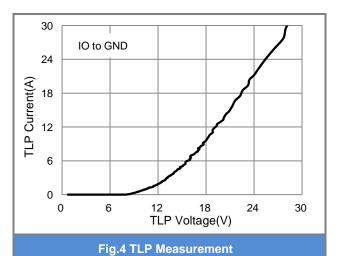


Fig.3 Typical Junction Capacitance



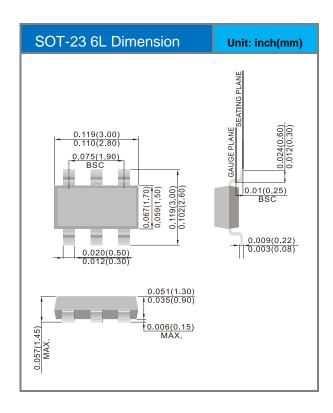


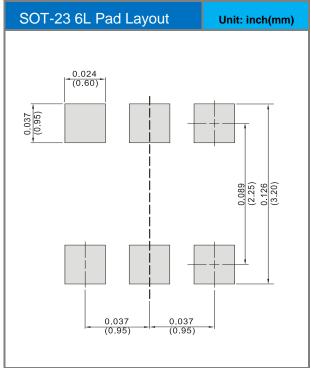


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1605C4A6-AU_R1_000A1	SOT-23 6L	3K / 7" Reel	KCC	Halogen Free

Packaging Information & Mounting Pad Layout









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