



HI-SURGE ESD PROTECTION

Voltage

36 V

Features

• IEC61000-4-2(ESD): ± 30 kV Air, ± 30 kV Contact

• IEC61000-4-4(EFT): 40 A(5/50 ns)

• IEC61000-4-5(Lightning): 9 A(8/20 uS)

• 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

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

• Approx. Weight: 0.0003 ounces, 0.0084 grams







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

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	V	±30	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±30		
Typical Thermal Resistance	R _{eJA} ⁽¹⁾	350	°C/W	
Operating Junction Temperature Range	T _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} ⁽²⁾	-	-	-	36	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} = 1 mA, Any I/O pins to GND	40	-	-	V
Reverse Leakage Current	I _R	V _R = 36 V	-	-	0.8	uA
Clamping Voltage	V _{CL}	I_{PP} = 1 A, t_P = 8/20 us, Any I/O pins to GND	-	-	60	
		I_{PP} = 9A, t_P = 8/20 us, Any I/O pins to GND	-	-	75	V
Off State Junction Capacitance	С	0Vdc Bias f = 1 MHz, Any I/O pins to GND	-	-	100	pF

NOTES:

- 1. Mounted on a FR4 PCB, Single-sided copper, mini pad.
- 2. 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

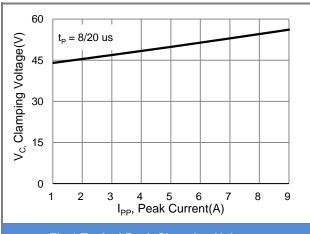
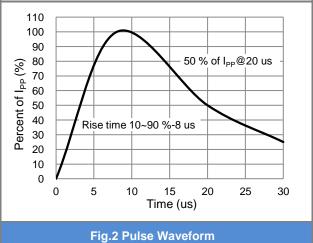


Fig.1 Typical Peak Clamping Voltage





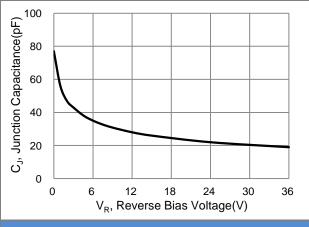


Fig.3 Typical Junction Capacitance

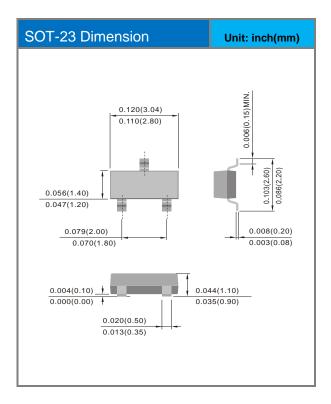


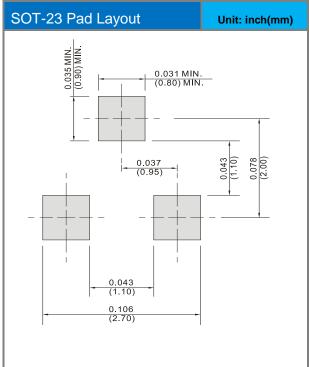


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE4136C2A-AU_R1_000A1	SOT-23	3K / 7" Reel	7EC	Halogen Free

Packaging Information & Mounting Pad Layout









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