

PE4136C2A-AU

Hi-Surge ESD Protection

Voltage **36 V**

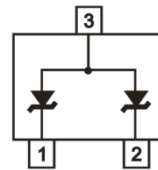
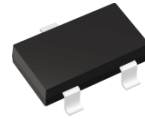
Features

- 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 μ S)
- 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

SOT-23



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

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	V _{ESD}	± 30	kV
ESD IEC61000-4-2(Contact)		± 30	
Typical Thermal Resistance	R _{θJA} (1)	350	°C/W
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

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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	μA
Clamping Voltage	V _{CL}	I _{PP} = 1 A, t _P = 8/20 μs, Any I/O pins to GND	-	-	60	V
		I _{PP} = 9A, t _P = 8/20 μs, Any I/O pins to GND	-	-	75	
Off State Junction Capacitance	C _J	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.

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TYPICAL CHARACTERISTIC CURVES

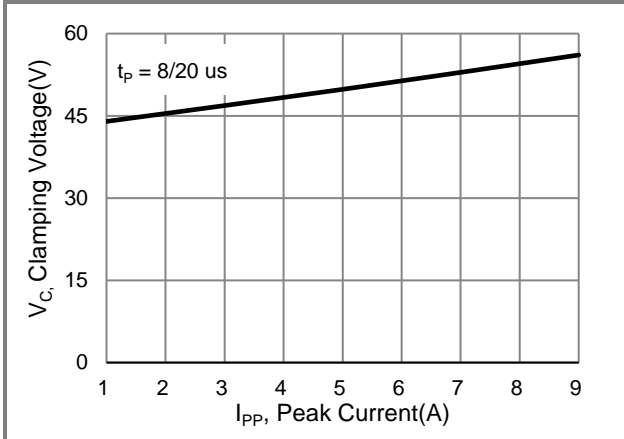


Fig.1 Typical Peak Clamping Voltage

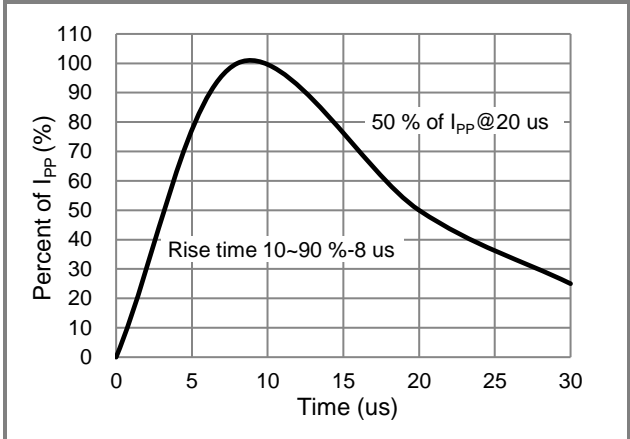


Fig.2 Pulse Waveform

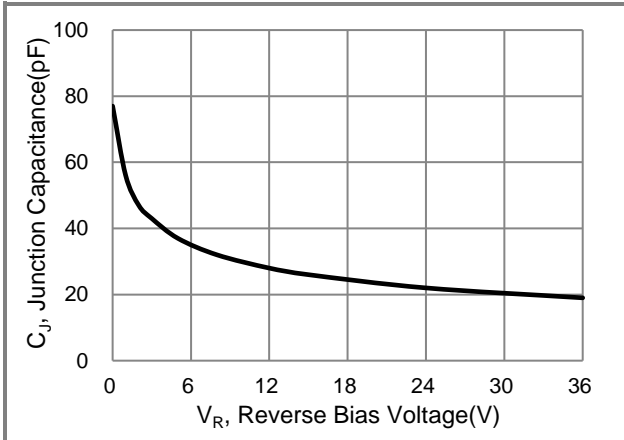


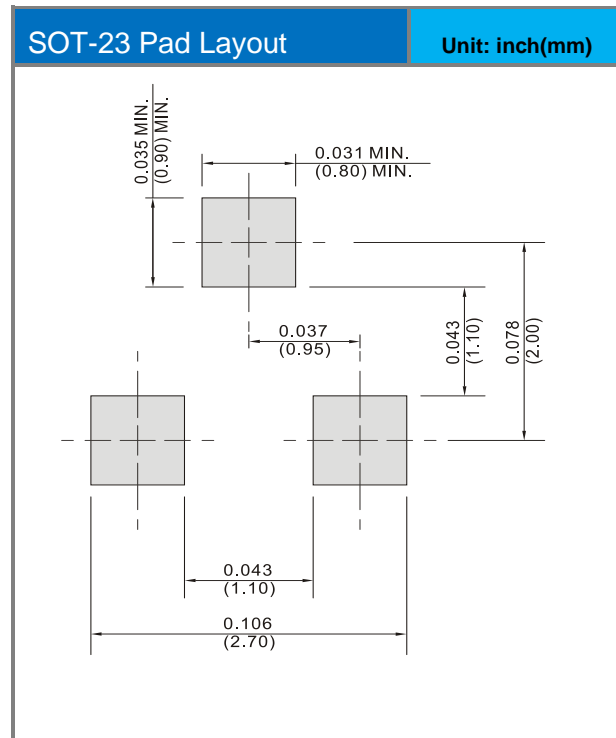
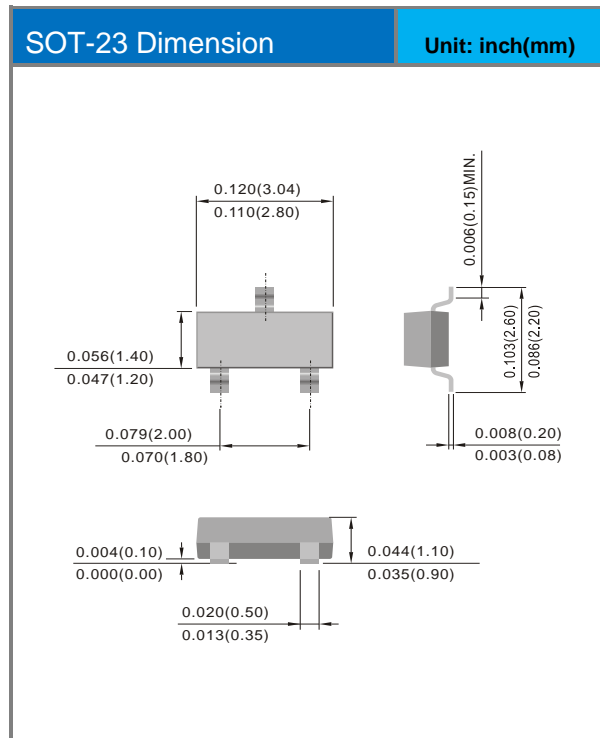
Fig.3 Typical Junction Capacitance

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PE4136C2A-AU	SOT-23	3K / 7" Reel	7EC

Packaging Information & Mounting Pad Layout



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