



PE4136C2A-AU

HI-SURGE ESD PROTECTION

Voltage

36 V

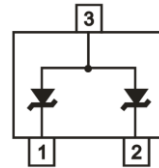
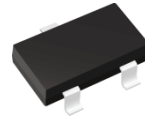
Features

- 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 ($T_A = 25^\circ\text{C}$ 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	$R_{\theta\text{JA}}^{(1)}$	350	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	-55~150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ 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}	$I_{BR} = 1\text{ mA}$, Any I/O pins to GND	40	-	-	V
Reverse Leakage Current	I_R	$V_R = 36\text{ V}$	-	-	0.8	μA
Clamping Voltage	V_{CL}	$I_{PP} = 1\text{ A}$, $t_P = 8/20\text{ }\mu\text{s}$, Any I/O pins to GND	-	-	60	V
		$I_{PP} = 9\text{ A}$, $t_P = 8/20\text{ }\mu\text{s}$, Any I/O pins to GND	-	-	75	
Off State Junction Capacitance	C_J	0Vdc Bias $f = 1\text{ MHz}$, 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

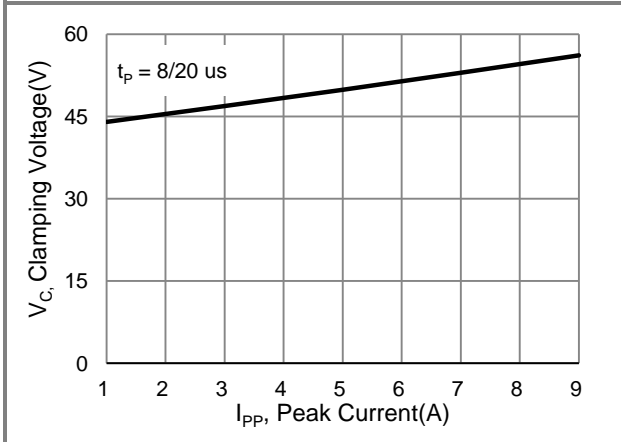


Fig.1 Typical Peak Clamping Voltage

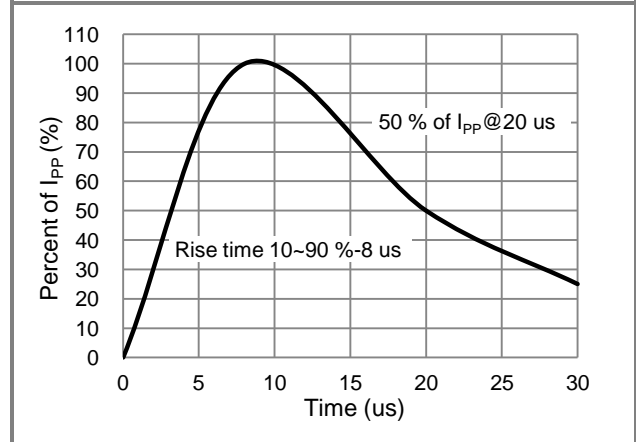


Fig.2 Pulse Waveform

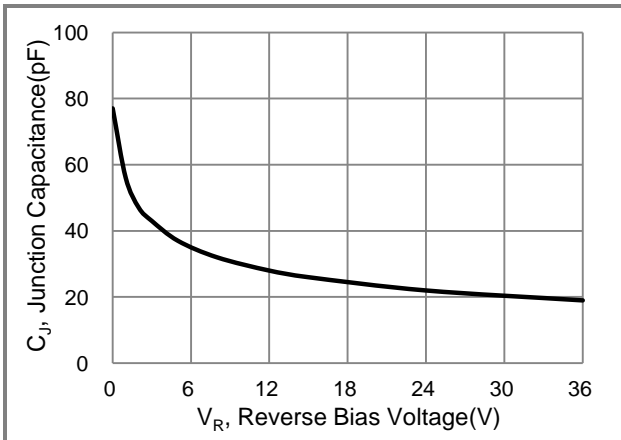


Fig.3 Typical Junction Capacitance

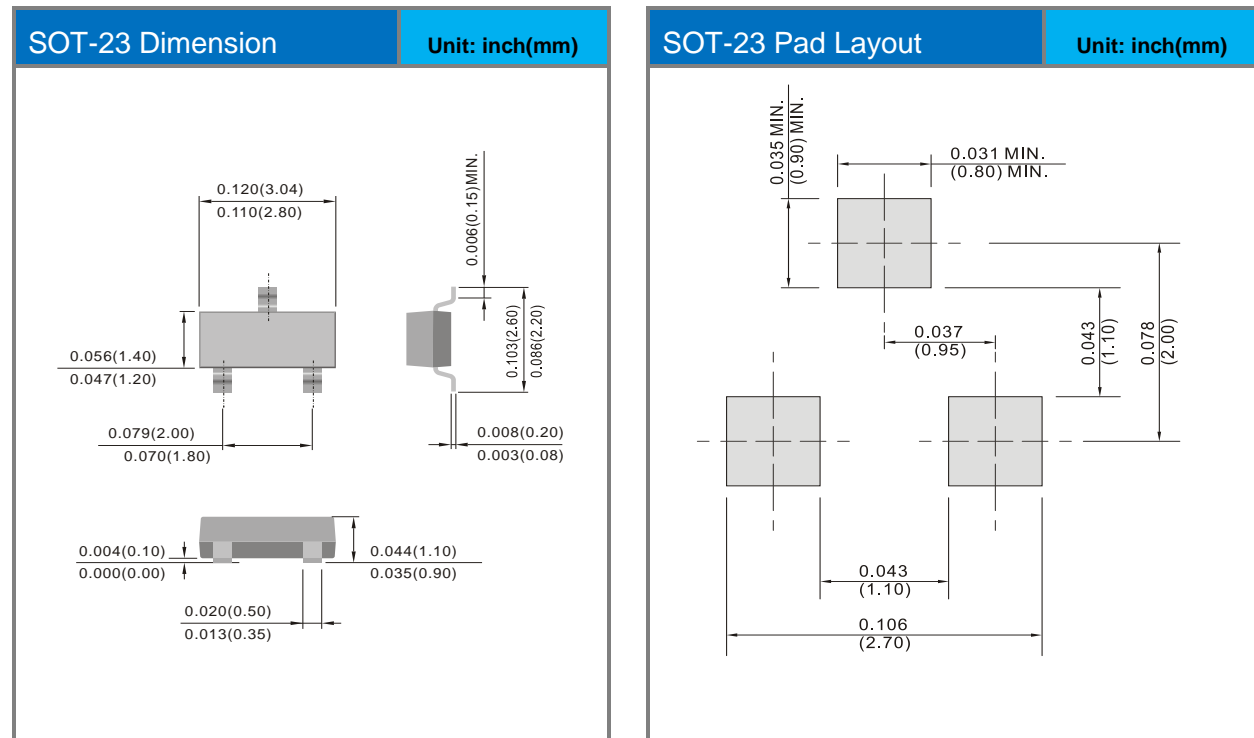


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Part No Packing Code Version

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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