



# PEC3324C2A-AU

## ESD PROTECTION

**Voltage**

**24 V**

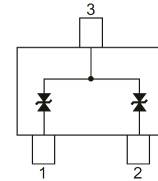
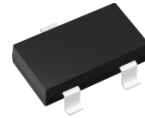
### Features

- ISO10605(C = 330 pF, R = 330 Ω): ± 30 kV Air, ± 30 kV Contact
- ISO7637-3:
  - Pulse 3a:  $V_S = -150\text{ V}$
  - Pulse 3b:  $V_S = +100\text{ V}$
- IEC61000-4-5(Lightning): 7 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

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	$R_{\theta JA}^{(1)}$	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	$V_{RWM}^{(2)}$	-	-	-	24	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR} = 1\text{mA}$ , Any I/O pins to GND	26.2	-	30.3	V
Reverse Leakage Current	$I_R$	$V_R = 24\text{V}$	-	-	50	nA
Clamping Voltage	$V_{CL}$	$I_{PP} = 1\text{A}$ , $t_P = 8/20\mu\text{s}$ , Any I/O pins to GND	-	-	34	V
		$I_{PP} = 7\text{A}$ , $t_P = 8/20\mu\text{s}$ , Any I/O pins to GND	-	-	43	
Off State Junction Capacitance	$C_J$	0Vdc Bias $f = 1\text{MHz}$ , Any I/O pins to GND	-	25	30	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

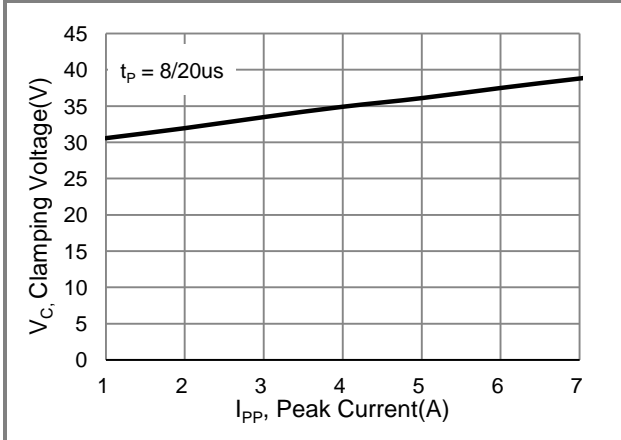


Fig.1 Typical Peak Clamping Voltage

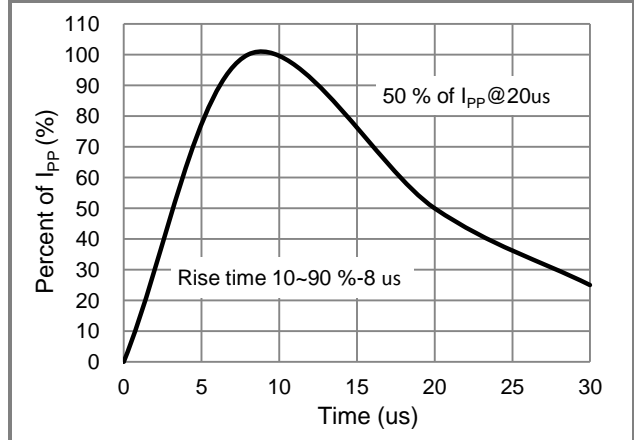


Fig.2 Pulse Waveform

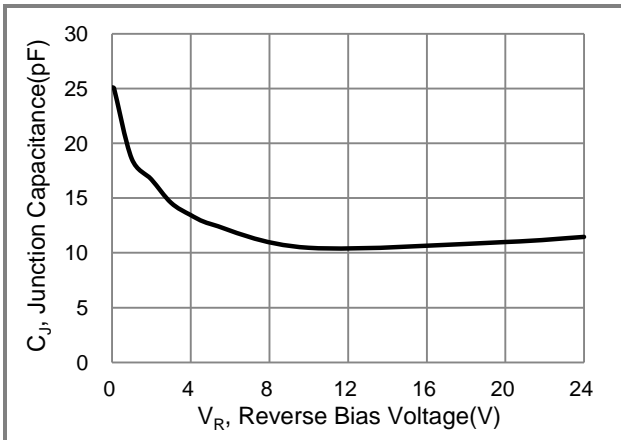


Fig.3 Typical Junction Capacitance

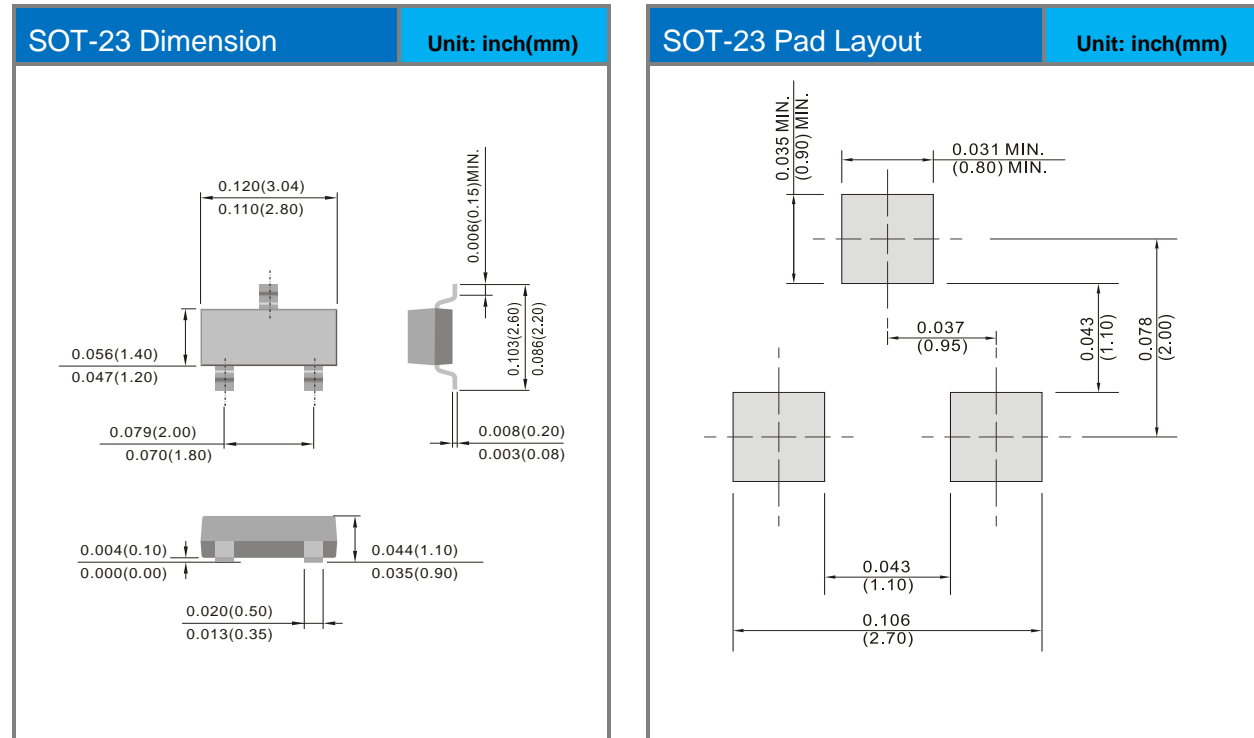


# PEC3324C2A-AU

## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC3324C2A-AU_R1_000A1	SOT-23	3K / 7" Reel	24C	Halogen Free

## Packaging Information & Mounting Pad Layout





## PEC3324C2A-AU

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