



# PE3324C2A

## ESD PROTECTION

**Voltage**

**24 V**

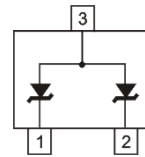
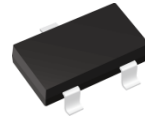
## Features

- IEC61000-4-2(ESD):  $\pm 18$  kV Air,  $\pm 20$  kV Contact
- IEC61000-4-4(EFT): 40 A(5/50 ns)
- IEC61000-4-5(Lightning): 3 A(8/20  $\mu$ S)
- Low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

## 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<sub>A</sub>=25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	V <sub>ESD</sub>	$\pm 20$	kV
ESD IEC61000-4-2(Contact)		$\pm 18$	
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup>	350	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°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	$V_{BR}$	$I_{BR} = 1\text{ mA}$	26.5	-	29.5	V
Reverse Leakage Current	$I_R$	$V_R = 24\text{ V}$	-	-	1	$\mu\text{A}$
Clamping Voltage	$V_{CL}$	$I_{PP} = 1\text{ A}, t_P = 8/20\text{ }\mu\text{s}$	-	-	35	V
		$I_{PP} = 3\text{ A}, t_P = 8/20\text{ }\mu\text{s}$	-	-	45	
Off State Junction Capacitance	$C_J$	0Vdc Bias $f = 1\text{ MHz}$	-	-	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

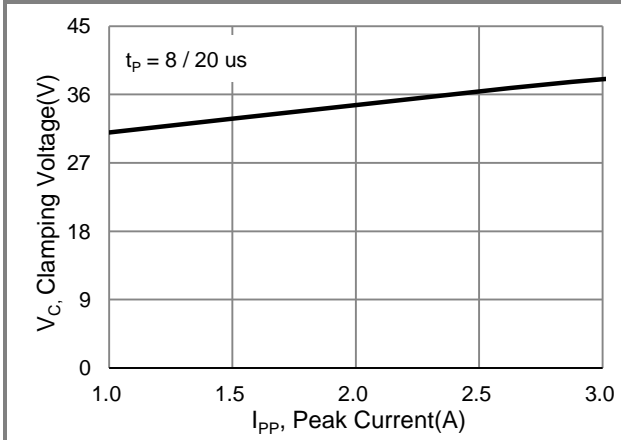


Fig.1 Typical Peak Clamping Voltage

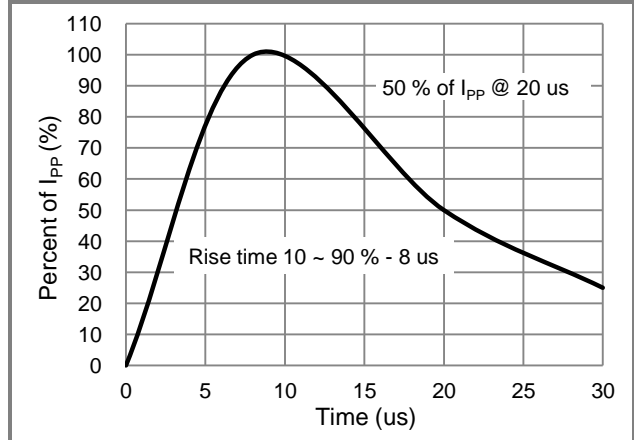


Fig.2 Pulse Waveform

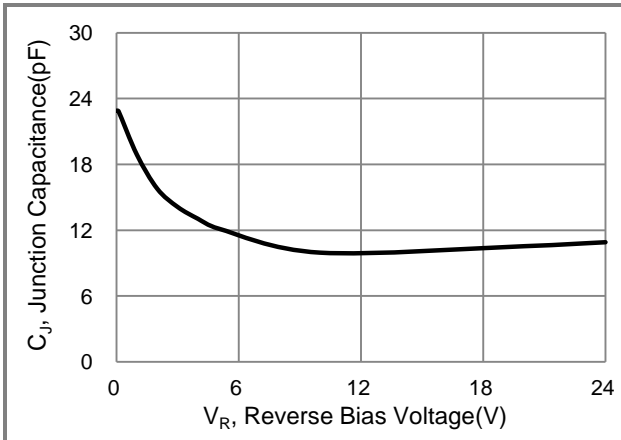


Fig.3 Typical Junction Capacitance

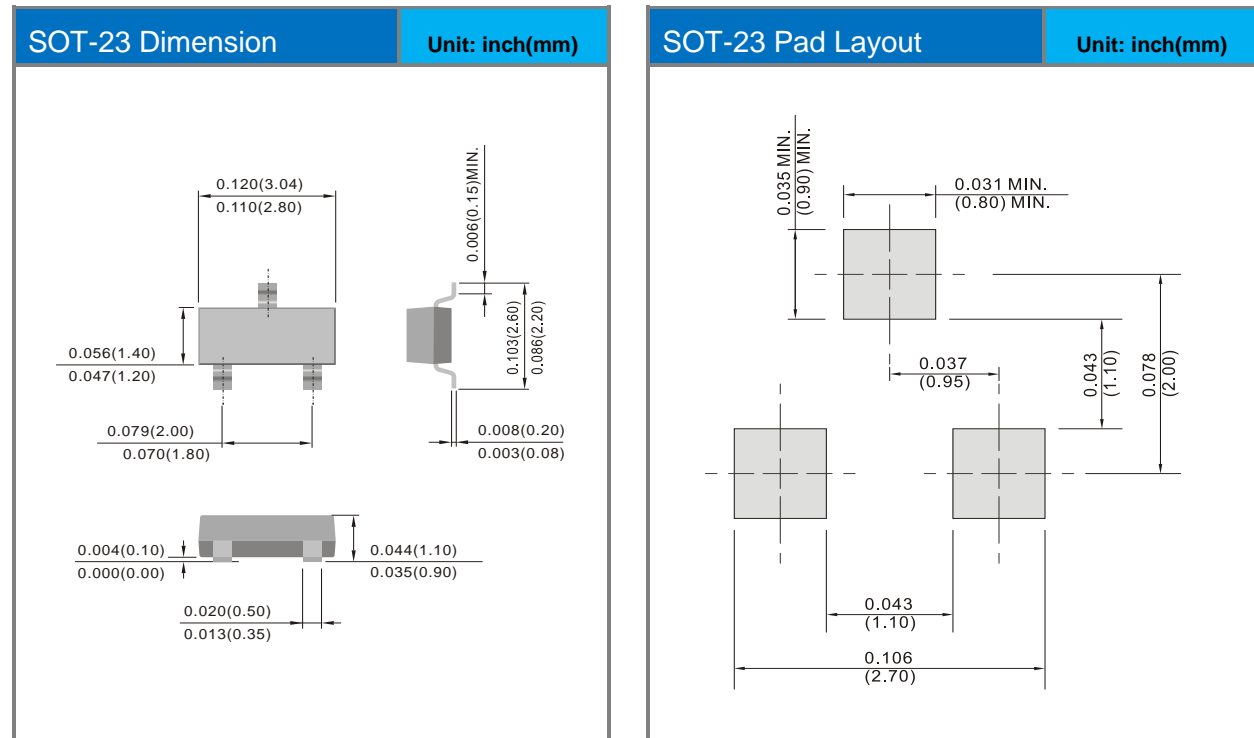


# PE3324C2A

## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE3324C2A_R1_00001	SOT-23	3K / 7" Reel	42A	Halogen Free

## Packaging Information & Mounting Pad Layout





## PE3324C2A

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