PEC2305C2A
VERY LOW CAPACITANCE ESD PROTECTION

5 V

Voltage Features

ΡΛΝ

- IEC61000-4-2(ESD): ± 15 kV Air, ± 8 kV Contact
- IEC61000-4-4(EFT): 20 A(5 / 50 ns)
- IEC61000-4-5(Lightning): 2 A(8 /20 uS)
- Low clamping voltage

CONDUCTOR

- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

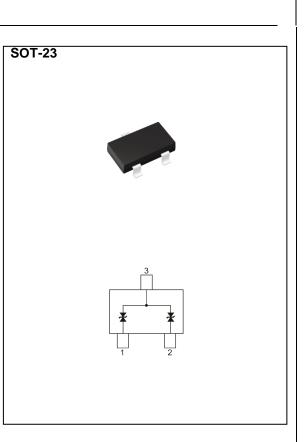
Mechanical Data

- Case: Molded plastic, SOT-23
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)		± 15	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	± 8		
Typical Thermal Resistance	$R_{ extsf{ heta}JA}^{(1)}$	350	°C/W	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	











PEC2305C2A

Electrical Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	$V_{RWM}^{(2)}$	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 1 mA	5.5	-	10	V
Reverse Leakage Current	I _R	V _R = 5 V	-	-	100	nA
Clamping Voltage	V _{CL}	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{ us}$	-	-	12	V
		$I_{PP} = 2 \text{ A}, t_P = 8/20 \text{ us}$	-	-	15	
Clamping Voltage TLP	V _{CL} ⁽³⁾	I _{PP} = 8 A, t _P = 100 ns	-	12.1	-	
		$I_{PP} = 16 \text{ A}, t_P = 100 \text{ ns}$	-	13.7	-	V
Dynamic Resistance	R _{DYN}	t _P = 100 ns	-	0.2	_	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f = 1 MHz	-	-	3.5	pF

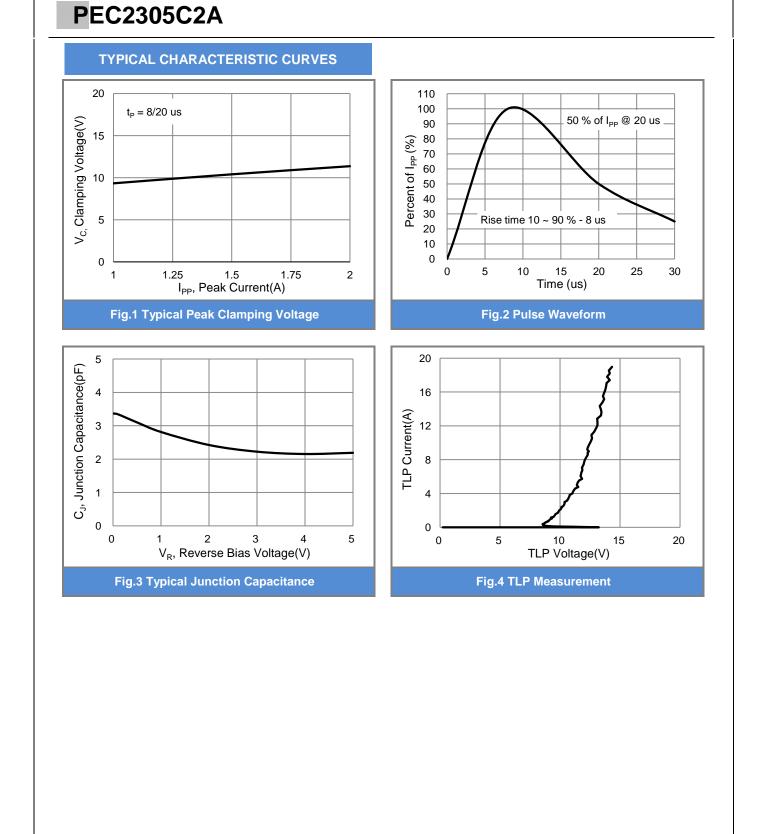
NOTES:

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.

3. Testing using Transmission Line Pulse (TLP) conditions: Z0 = 50 Ω , t_{P} = 100 ns.

April 11,2018-REV.00









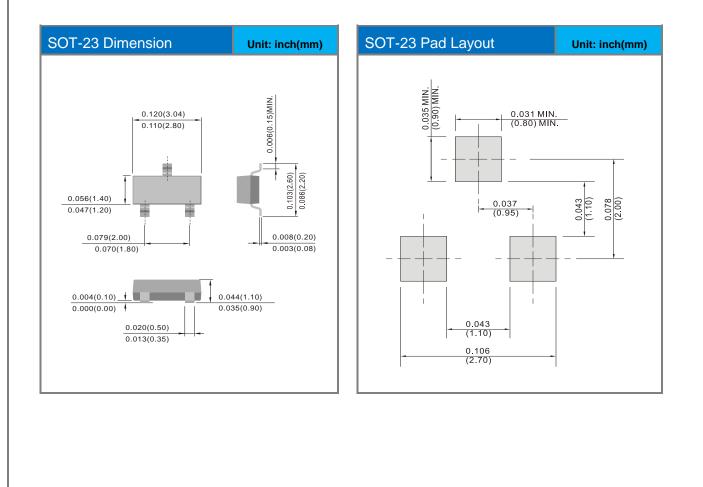


PEC2305C2A

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC2305C2A_R1_00001	SOT-23	3K / 7" Reel	32A	Halogen Free

Packaging Information & Mounting Pad Layout





PEC2305C2A

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)