



ESD Protection

Voltage

24 V

Features

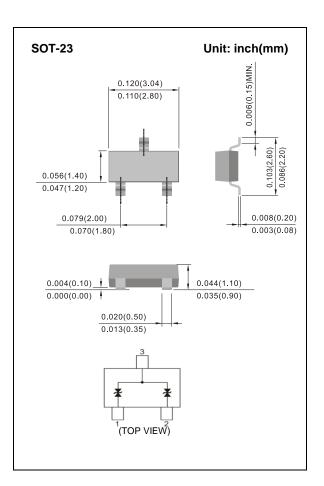
- Bidirectional ESD protection
- IEC61000-4-2(ESD): ±20kV Air, ±18kV Contact
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 3A(8/20μS)
- Low leakage current, maximum of 0.05μA at rated voltage
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams

Applications

- CAN bus protection
- Automotive applications



Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS	
ESD IEC61000-4-2(Air)		±20	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±18		
Operating Junction Temperature Range	TJ	-55 to +150	°C	
Storage Temperature Range	T _{STG}	-55 to +150	°C	





Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage ^(Note 1)	V_{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V_{BR}	I _R =5mA	25.4	-	30.3	V
Reverse Leakage Current	I_R	V _R =24V	-	-	50	nA
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	-	40	V
		I _{PP} =3A, t _P =8/20μs	-	-	60	V
Clamping Voltage TLP (Note 2)	V _{CL}	I _{PP} =4A, t _P =100ns	-	34.5	-	V
		I _{PP} =8A, t _P =100ns	-	38	-	V
Dynamic Resistance	R_{DYN}	t _P =100ns	-	0.88	-	Ω
Off State Junction Capacitance	C_{J}	0Vdc Bias f=1MHz	-	11	15	pF

Note: 1.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.

2.Testing using Transmission Line Pulse (TLP) conditions: $Z0 = 50\Omega$, $t_P = 100$ ns.





TYPICAL CHARACTERISTIC CURVES

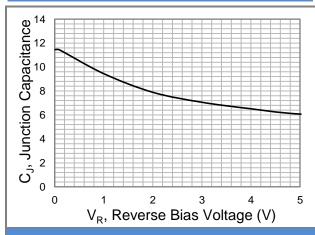
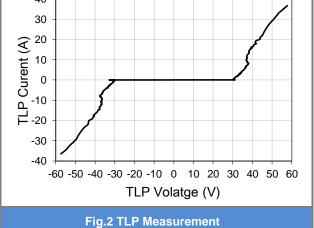


Fig.1 Typical Junction Capacitance



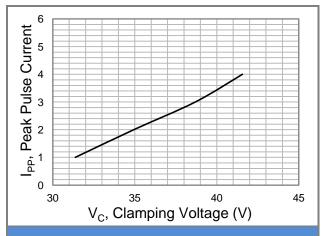
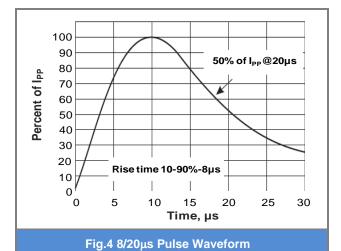


Fig.3 Typical Peak Clamping Voltage(8/20μs)



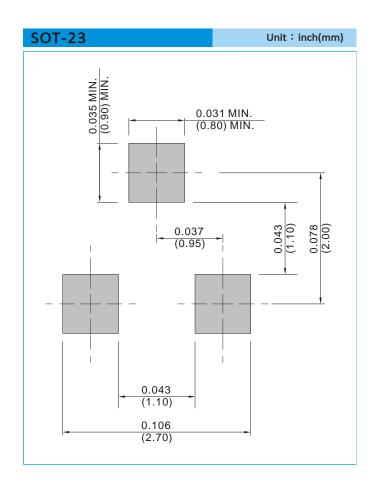




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC3124C2A-AU_R1_000A1	SOT-23	3K / 7" Reel	24A	Halogen Free
PEC3124C2A-AU_R2_000A1	SOT-23	12K / 13" Reel	24A	Halogen Free

MOUNTING PAD LAYOUT







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