



ESD PROTECTION

Voltage

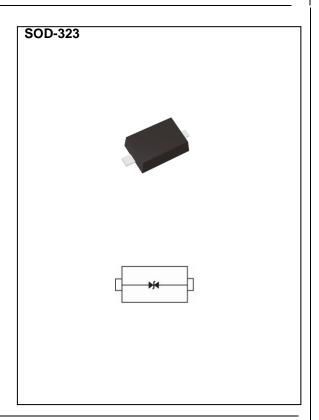
12 V

Features

- ISO10605(C=330pF, R=330Ω): ±30kV Air, ±30kV Contact
- IEC61000-4-5(Lightning): 5A(8/20uS)
- HBM \geq ± 8 kV & CDM \geq ± 2 kV
- 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, SOD-323
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams



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

PARAMETER	SYMBOL	LIMIT	UNITS	
ISO10605(C=330pF, R=330Ω) (Air)		±30	kV	
ISO10605(C=330pF, R=330Ω) (Contact)	V _{ESD}	±30		
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	650	°C/W	
Operating Junction Temperature Range	T _J	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





Electrical Characteristics (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Reverse Stand-Off Voltage	V _{RWM} ⁽²⁾	-	-	-	12	V	
Reverse Breakdown Voltage	V_{BR}	I _{BR} = 1 mA, Any I/O pins to GND	13	-	16	V	
Reverse Leakage Current	I _R	V _R = 12 V	-	-	0.1	uA	
Clamping Voltage	V _{CL}	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{ us},$ Any I/O pins to GND	-	ı	20		
		I_{PP} = 5 A, t_P = 8/20 us, Any I/O pins to GND	-	-	23	V	
Clamping Voltage TLP	V _{CL} ⁽³⁾	$I_{PP} = 8 \text{ A}, t_P = 100 \text{ ns}$	-	17	-	V	
		$I_{PP} = 16 \text{ A}, t_P = 100 \text{ ns}$	-	20	-		
Dynamic Resistance	R _{DYN}	t _P = 100 ns	-	0.38	-	Ω	
Off State Junction Capacitance	CJ	0Vdc Bias f = 1MHz, Any I/O pins to GND	-	15	20	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: $Z0 = 50\Omega$, $t_P = 100$ ns.





TYPICAL CHARACTERISTIC CURVES

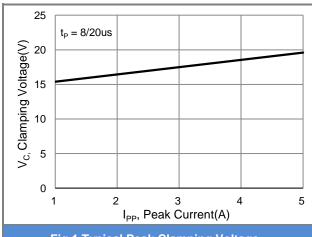


Fig.1 Typical Peak Clamping Voltage

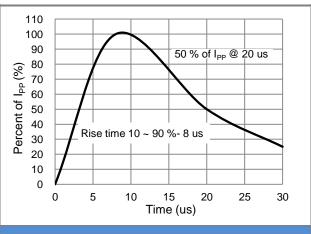


Fig.2 Pulse Waveform

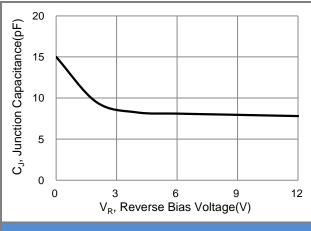
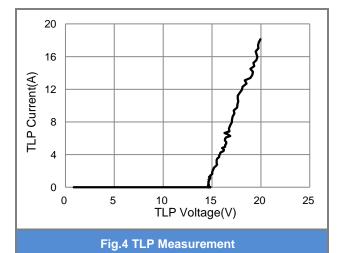


Fig.3 Typical Junction Capacitance



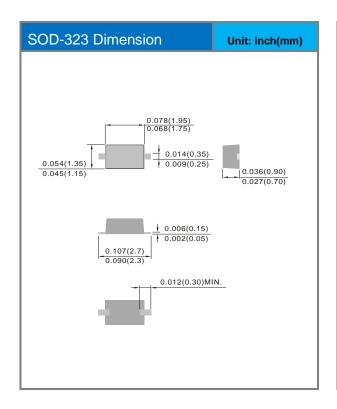


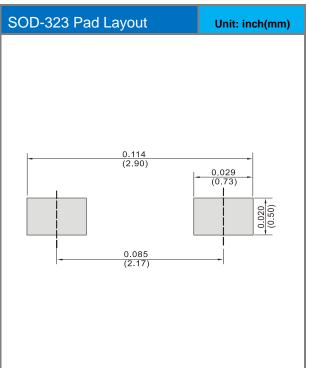


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC3212C1CS-AU_R1_000A1	SOD-323	5K / 7" Reel	32S	Halogen Free

Packaging Information & Mounting Pad Layout









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