



VERY LOW CAPACITANCE ESD PROTECTION

Voltage

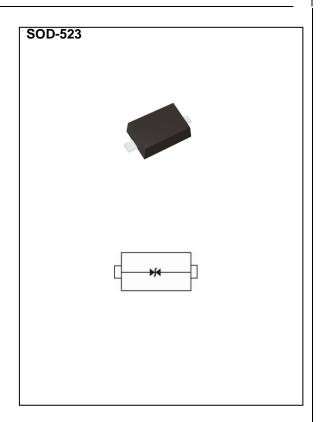
5 V

Features

- IEC61000-4-2(ESD): ± 15 kV Air, ± 8 kV Contact
 Compliance with the capability up to ± 30 kV
- IEC61000-4-4(EFT): 40 A (5/50 ns)
- IEC61000-4-5(Lightning): 3.5 A(8/20 uS)
- 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, SOD-523
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00005 ounces, 0.0014 grams



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

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	V	±30	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±30		
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	710	°C/W	
Operating Junction Temperature Range	T _J	-55~150	ပိ	
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	$V_{RWM}^{(2)}$	-	-	-	5	V
Snap-Break Voltage	V_{SB}	I _{SB} = 50 mA	5	-	8	V
Reverse leakage current	I_R	V _R = 5 V	-	-	0.1	uA
Clamping Voltage	V _{CL}	$I_{PP} = 1 \text{ A}, t_P = 8/20 \text{us}$	-	-	9	V
		$I_{PP} = 3.5 \text{ A}, t_P = 8/20 \text{ us}$	-	-	12.5	
Clamping Voltage TLP	V _{CL} (3)	$I_{PP} = 8 \text{ A}, t_{P} = 100 \text{ ns}$	-	10	-	.,
		$I_{PP} = 16 \text{ A}, t_{P} = 100 \text{ ns}$	-	12	-	V
Dynamic Resistance	R_{DYN}	t _P = 100 ns	-	0.25	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f = 1 MHz	-	-	6	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: $Z0 = 50 \Omega$, $t_P = 100 \text{ ns}$.





TYPICAL CHARACTERISTIC CURVES

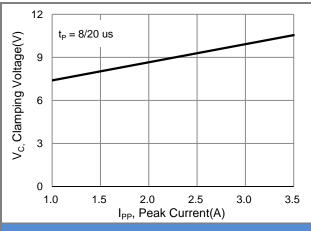


Fig.1 Typical Peak Clamping Voltage

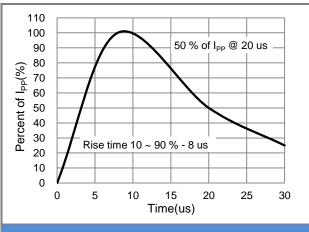


Fig.2 Pulse Waveform

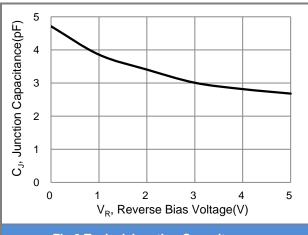
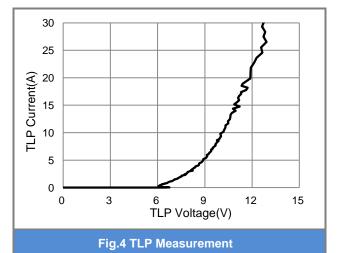


Fig.3 Typical Junction Capacitance



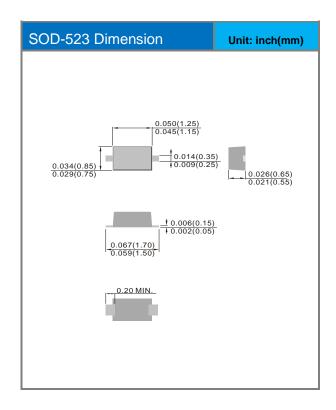


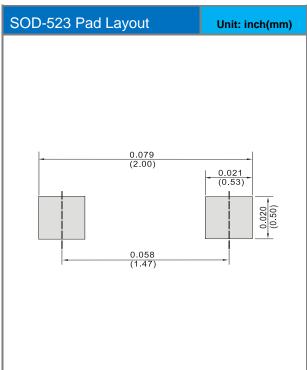


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC2605C1ES_R1_00001	SOD-523	5K / 7" Reel	28	Halogen Free

Packaging Information & Mounting Pad Layout









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