

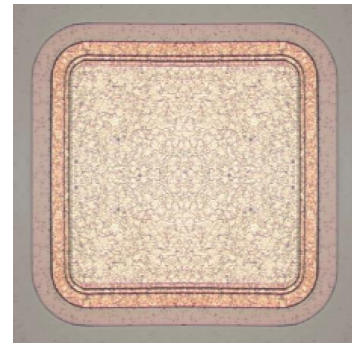
ESD Protection Diode

Features

- For sensitive ESD protection
- Low leakage
- Uni-directional ESD protection of one line
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per



■ PES370DA5V0AS1-155A

Die Size (Include Scribing Lane)	370um*370um
Thickness	155±15um
Pad Size	240*240 μ m ²
Scribing Lane	40 μ m
Top Metal	AlSiCu: 4.5±0.3μm
Back Metal	TiNiAg: 3.4um
Wafer Size	Φ 150 mm
Gross Die	116527

■ Maximum Ratings

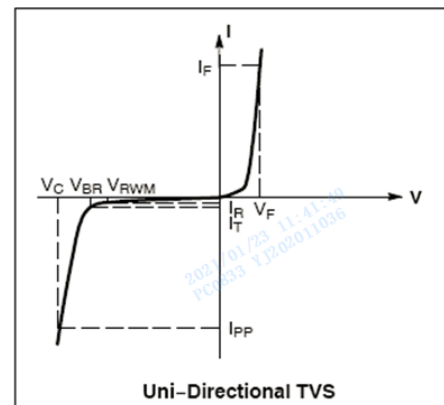
PARAMETER	SYMBOL	LIMITS	UNIT
Operating Junction & Storage Temperature	T _J &T _{STG}	-45 to +125	°C
IEC61000-4-2(ESD)Air	VESD	±30	KV
IEC61000-4-2(ESD)Contact		±8	KV
Peak Pulse Current	I _{PP}	20	A

(1).Device stressed with ten non-repetitive ESD pulses.

(2).Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Standoff Voltage	V _{RWM}	V	/			5.0
Reverse Leakage Current	I _R	uA	V _{RWM} =5.0V			0.5
Breakdown Voltage	V _(BR)	V	I _T =1mA	6.2	6.8	7.5
Clamping Voltage	V _C	V	I _{PP} =5A			9
Clamping Voltage	V _C	V	I _{PP} =18A			12
Forward voltage	V _F	V	I _F =10mA			1.1
Junction Capacitance	C _J	pF	V _R =0V,f=1MHZ		118	



(1).Other voltages available upon request.

(2).Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5



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