

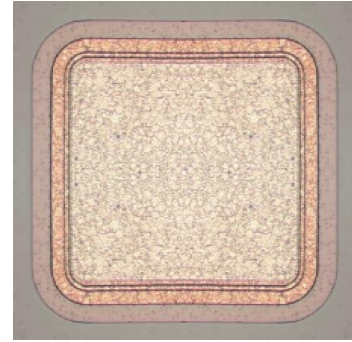
# ESD Protection Diode

### 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



## ■ PES370DA3V3AG1-155A

Die Size (Include Scribing Lane)	370um*370um
Thickness	155±15um
Pad Size	240*240 μ m <sup>2</sup>
Scribing Lane	40 μ m
Top Metal	AlSiCu: 4.5±0.3μm
Back Metal	Au: 1.2um
Wafer Size	Φ 150 mm
Gross Die	116527

## ■ Maximum Ratings

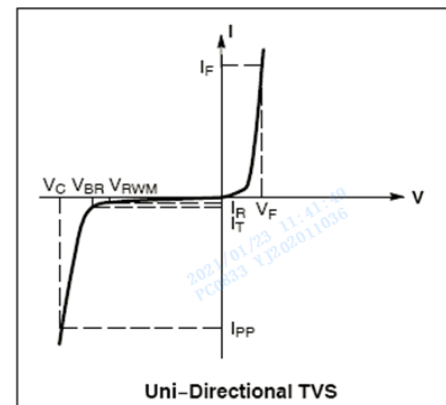
PARAMETER	SYMBOL	LIMITS	UNIT
Operating Junction & Storage Temperature	T <sub>J</sub> &T <sub>STG</sub>	-45 to +125	°C
IEC61000-4-2(ESD)Air	VESD	±30	KV
IEC61000-4-2(ESD)Contact		±8	KV
Peak Pulse Current	I <sub>PP</sub>	25	A

(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<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Standoff Voltage	V <sub>RWM</sub>	V	/			3.3
Reverse Leakage Current	I <sub>R</sub>	uA	V <sub>RWM</sub> =3.3V			0.5
Breakdown Voltage	V <sub>(BR)</sub>	V	I <sub>T</sub> =1mA	5	5.8	6.2
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =5A			9
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =18A			12
Forward voltage	V <sub>F</sub>	V	I <sub>F</sub> =10mA			1.1
Junction Capacitance	C <sub>J</sub>	pF	V <sub>R</sub> =0V,f=1MHz		165	



(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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