

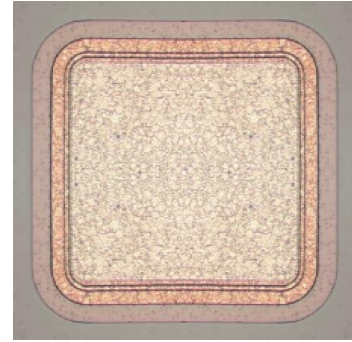
# ESD Protection Diode

### 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



## ■ PES370DA7V0AG1-155A

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

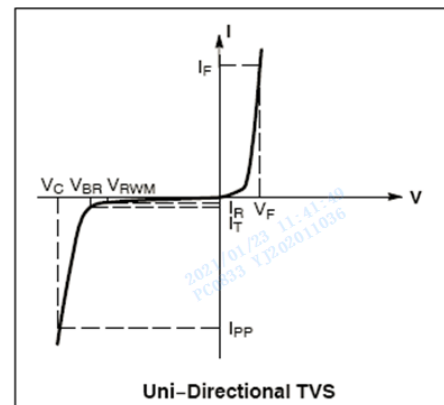
PARAMETER	SYMBOL	LIMITS	UNIT
Operating Junction & Storage Temperature	T <sub>J</sub> &T <sub>STG</sub>	-45 to +125	°C
IEC61000-4-2(ESD)Air	VESD	±30	KV
IEC61000-4-2(ESD)Contact		±8	KV
Peak Pulse Current	I <sub>PP</sub>	17	A

(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	/			7.0
Reverse Leakage Current	I <sub>R</sub>	uA	V <sub>RWM</sub> =7.0V			0.5
Breakdown Voltage	V <sub>(BR)</sub>	V	I <sub>T</sub> =1mA	7.5	8.3	9.0
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =5A			9
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =15A			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		96	



(1).Other voltages available upon request.

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



## Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.