



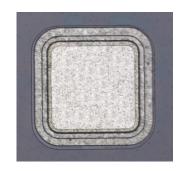
ESD Protection Diode

Features

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

Mechanical Data

- Package: DFN1006
- Terminals: Tin plated leads, solderable per



■ TES220BC3V3AG1-155A

Die Size (Include Scribing Lane)	220um*220um
Thickness	155±15um
Pad Size	120*120 µ m2
Scribing Lane	40 μ m
Top Metal	AlSiCu: 2.5±0.3µm
Back Metal	Au: 1.2um
Wafer Size	Ф 150 m m
Gross Die	330202

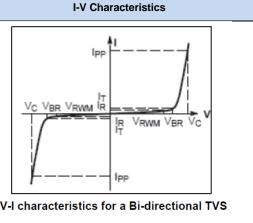
Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
Operating Junction & Storage Temperature	TJ&T _{STG}	-45 to +125	${\mathbb C}$
IEC61000-4-2(ESD)Air	(4)	±30	KV
IEC61000-4-2(ESD)Contact	VESD (1)	±8	KV
Peak Pulse Current	I _{PP} (2)	10	А

- (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 (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Тур	Max	
Reverse Standoff Voltage	V _{RWM}	٧	/			3.3	
Reverse Leakage Current (GND-IO)	I _R	uA	VRWM=3.3V			1	
Breakdown Voltage (GND-IO)	V _(BR)	٧	I _T =1mA	3.5	4.8	5.8	
Clamping Voltage (GND-IO)	Vc	٧	I _{PP} =10A			10	V _C
Reverse Leakage Current (IO-GND)	I _R	uA	VRWM=3.3V			1	l i
Breakdown Voltage (IO-GND)	V _(BR)	٧	I⊤=1mA	3.5	4.8	5.8	1
Clamping Voltage (IO-GND)	Vc	V	I _{PP} =10A			10	V-I cha
Junction Capacitance	Сл	рF	V _R =0V,f=1MHz		15		



^{(1).} Other voltages available upon request.

^{(2).}Non-repetitive current pulse 8/20 \upmu s exponential decay waveform according to IEC61000-4-5



TES220BC3V3AG1-155A

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