



E.S.D. Dual Protection Diode Array

This Dual Unidirectional ESD Protector Array family have been designed to protect sensitive equipment against ESD in high speed transmission buses, operating at 5V. This dual array offers an integrated solution to protect up to 2 data lines in a unidirectional mode or, 1 data line in a bi-directional mode, in application where the board space is a premium, in our SOT523 package version.

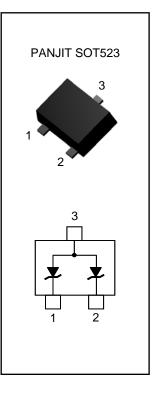
SPECIFICATION FEATURES

- IEC61000-4-2 ESD 15kV air, 8kV Contact Compliance
- Low Leakage Current, Maximum of 0.5µA at rated voltage
- Maximum Capacitance of 10pF per device at 0Vdc 1MHz
- Peak Power Dissipation of 20W 8/20µs Waveform
- Pin to pin compatible with standard SOT523
- Lead Free Package 100% Tin Plating, Matte finish
- Low profile, Max height of 0.55mm

APPLICATIONS

- Mobile Phones
- Digital Cameras
- Notebooks PC's





MAXIMUM RATINGS (Per Device)

Rating	Symbol	Value	Units
Peak Pulse Power (8/20µs Waveform)	P _{PP}	20	W
Peak Pulse Current (8/20µs Waveform)	I _{PPM}	2	А
ESD Voltage (HBM Per MIL STD883C - Method 3015-6)	V _{ESD}	20	kV
Operating Temperature Range	ТJ	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Per Device) Tj = 25°C

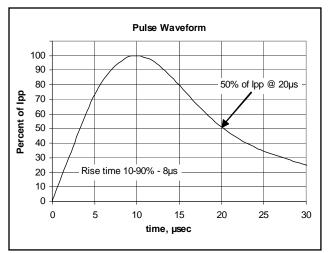
	Parameter	Symbol	Conditions	Min	Typical	Max	Units
	Reverse Stand-Off Voltage	V _{WRM}				5.0	V
v.Data	Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	6.2		7.2	V
	Reverse Leakage Current	۱ _R	V _R =5V			0.5	μA
	Clamping Voltage (8/20µs)	Vc	Ipp =2A			10	V
	Off State Junction Capacitance*	Cj	0 Vdc Bias f = 1MHz between pin 1, 2 to 3 (Gnd)		9	10	pF

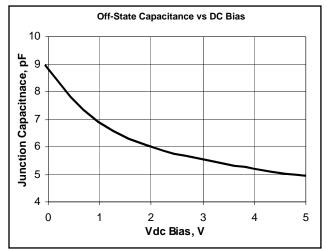
* Capacitance between pins 1 and 2 is half of the value, in a bi-directional configuration.

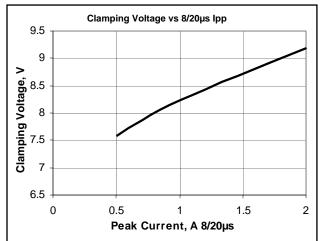




TYPICAL CHARACTERISTIC CURVES (Per Device) Tj = 25°C





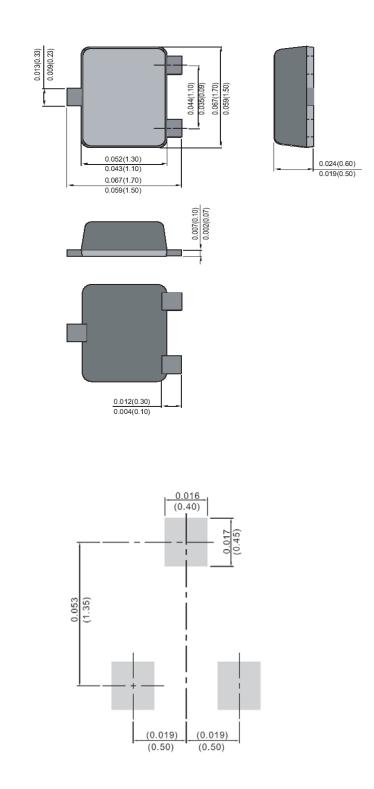


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PACKAGE DIMENSIONS AND SUGGESTED PAD LAYOUT



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