



# PJSOT05CFN3

## E.S.D. Dual Protection Diode Array

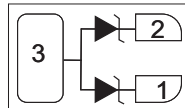
This Dual Unidirectional ESD Protector Array family have been designed to protect sensitive equipment against ESD in high speed transmission buses, operating at 5V. This dual array offers an integrated solution to protect up to 2 data lines in a unidirectional mode or, 1 data line in a bi-directional mode, in application where the board space is a premium, in our DFN 3L package version.

### FEATURES

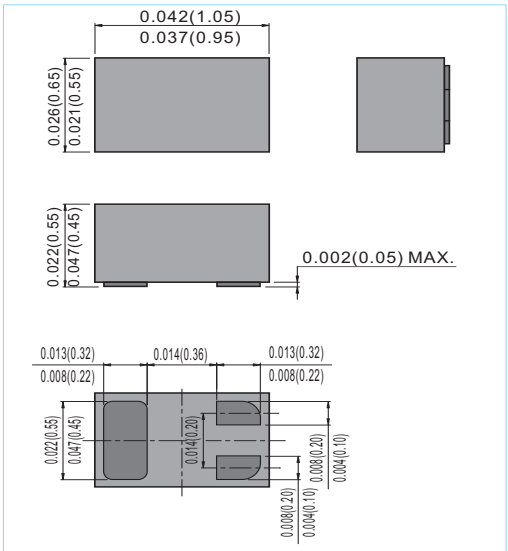
- IEC61000-4-2 ESD 15kV air, 8kV Contact Compliance
- Low Leakage Current, Maximum of 0.5 $\mu$ A at rated voltage
- Maximum Capacitance of 10pF per device at 0Vdc 1MHz
- Peak Power Dissipation of 20W 8/20 $\mu$ s Waveform
- Pin to pin compatible with standard DFN 3L
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: DFN 3L, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Marking: AF



**DFN 3L** Unit : inch(mm)



### MAXIMUM RATINGS (Per Device)

Parameter	Symbol	Value	Units
Peak Pulse Power (8/20 $\mu$ s Waveform)	P <sub>PP</sub>	20	W
Peak Pulse Current (8/20 $\mu$ s Waveform)	I <sub>PPM</sub>	2	A
ESD Voltage (HBM Per MIL STD883C-Method 3015-6)	V <sub>ESD</sub>	20	kV
Operating Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

### ELECTRAICAL CHARACTERISTICS (Per Device) T<sub>J</sub>=25°C

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Stand-Off Voltage	V <sub>WRM</sub>	-	-	-	5.0	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>BR</sub> =1mA	6.2	-	7.2	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	0.5	$\mu$ A
Clamping Voltage (8/20 $\mu$ s)	V <sub>C</sub>	I <sub>PP</sub> =2A	-	-	10	V
Off State Junction Capacitance (Note 1)	C <sub>J</sub>	0Vdc Bias f=1MHz between pin 1,2 to 3 (Gnd)	-	9	10	pF

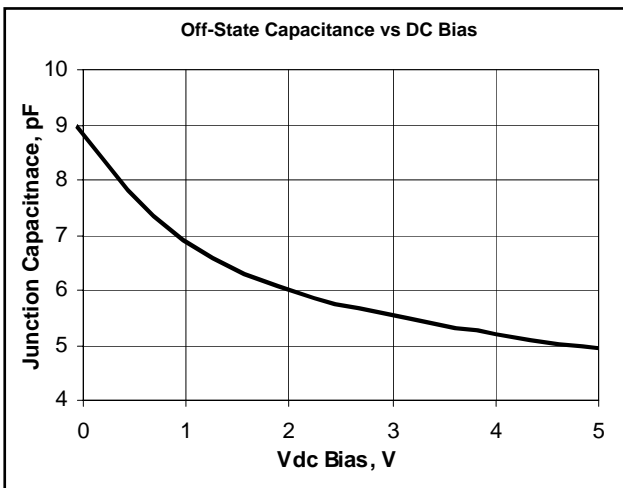
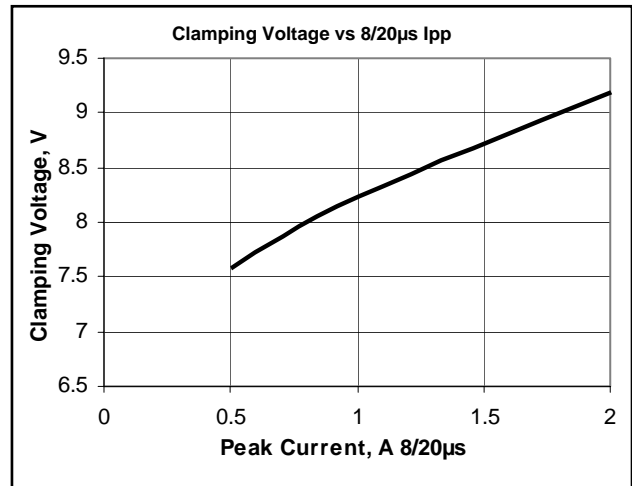
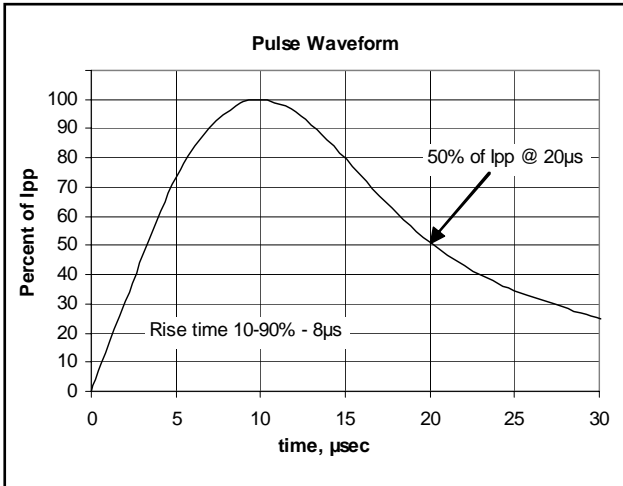
Note : 1.Capacitance between pins 1 and 2 is half of the value, in a bi-directional configuration.

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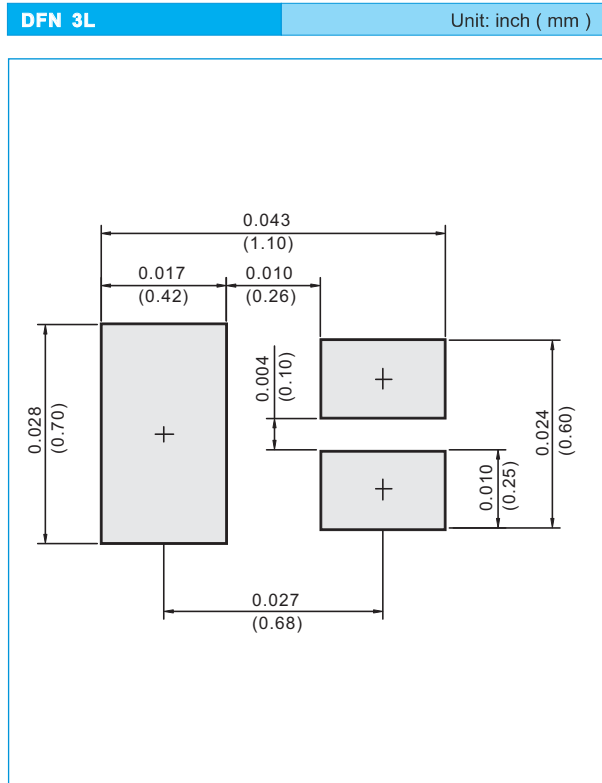
## TYPICAL CHARACTERISTIC CURVES (Per Device) $T_J=25^\circ\text{C}$





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## MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R - 8K per 7" plastic Reel

### LEGAL STATEMENT

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