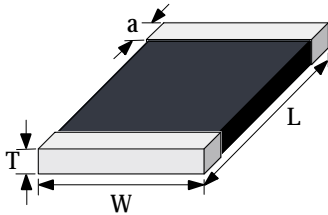


# PolyDiode 0805 SMD N Series



Dimensions



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
T <sub>max.</sub>	-	0.047	-	1.20
a	0.006	0.026	0.15	0.65
L	0.071	0.087	1.80	2.20
W	0.043	0.055	1.10	1.40

## ESD、EFT、Surge Suppressor & EMI/RFI Filter

### Features

- As JumboTek's electrical advantages and physical Advantages <For More> 2005.12.22
- Bidirectional clamping in a two pin device
- No polarity, suitable for uni- and bidirectional lines
- Adequate to replace a silicon TVS diode + EMC capacitor combination.
- Reducing board space and mounting cost
- Capable of withstanding numerous ESD strikes
- RoHS compliant

### Application examples

- Desktop and Note PC
- Mobile communication
- CD/MD/MP3 player
- LCD panel
- Touch panel
- Digital camera
- Button and switch unit
- Battery terminal
- Game machine
- Microphone/ receiver unit
- Audio-Video input-output terminal
- Portable handheld product (e.g. PDA)
- Cellular phones

### WebLinks

Further infos see:

[www.jumbotek.com](http://www.jumbotek.com)

Further technical infos

Please E-mail: [service@jumbotek.com](mailto:service@jumbotek.com)

## Specifications

### Packaging

Tape and Reel

T 7 inch reel (3,000 pcs.)

### Material

Body: Semiconducting Ceramic

Terminals: Ni/Sn plated (code "P" )

### Operating Temperature

-55 to +125°C

### Solderability

acc. to IEC 60068-2-58

235°C, 2 sec.

### Soldering Heat Resistance

260°C, 10 sec. (IEC 60068-2-58)

280°C, 5 sec. (IEC 60068-2-58)

### Response Time

<0.5ns

Temperature coefficient ( $\alpha V$ ) of clamping voltage ( $V_c$ ) @ specified test current

<0.01%/ °C

### Power dissipation

0.10 W max.

### Standards

IEC 61000-4-2

IEC 61000-4-3

IEC 61000-4-4

IEC 61000-4-5

Type	Maximum Ratings (125°C)			Specifications (25°C)					
	max. cont. working voltage		max. non-repetitive surge current (8/20 μs)	max. clamping voltage at spec. current (8/20 μs)		Nominal voltage at 1mA (DC) test current		typ. capacitance 1MHz	max. inductance
	V <sub>M(DC)</sub> (V)	V <sub>M(AC)</sub> (V)	I <sub>TM</sub> (A)	V <sub>c</sub> (V@A)		V <sub>N(DC)min.</sub> (V)	V <sub>N(DC)max.</sub> (V)	C <sub>typ.</sub> (pF)	L <sub>typ.</sub> (nH)
PD05S030N302PT	3.3	2.5	60	10.0@ 5		3.8	7.0	3000	1.5
PD05S050N192PT	5.5	4.0	100	15.5@ 5		7.1	9.8	1900	1.5
PD05S090N132PT	9.0	6.0	120	23.0@ 5		10.0	14.5	1300	1.5
PD05S120N901PT	12.0	9.0	120	28.0@ 5		14.0	18.5	900	1.5
PD05S140N701PT	14.0	11.0	120	30.0@ 5		16.0	21.0	700	1.5
PD05S180N691PT	18.0	14.0	120	40.0@ 5		22.0	28.0	690	1.5
PD05S220N421PT	22.0	17.0	120	44.0@ 5		24.3	30.0	420	1.5
PD05S260N421PT	26.0	20.0	120	58.0@ 5		29.5	38.0	420	1.5
PD05S300N291PT	30.0	25.0	100	65.0@ 5		35.0	43.0	290	1.5
PD05S680N850PT	68.0	50.0	80	135.0@ 5		74.0	90.0	85	1.5
PD05S05UN801PT	5.5	4.0	100	19.0@ 1		8.0	12.0	800	1.5

Note : Any special design request is acceptable, please contact sales dept. if you need.

## How to order

PD	05	S	030	N	302	P	T
Type code	Chip Size	Single Chip	Working voltage	Normal application	Capacitance Code	Termination Code	Packing Code
PolyDiode	03= EIA0603 05= EIA0805		Rated voltage Code, V <sub>m</sub> (DC)		302= 30×10 <sup>2</sup> 901= 90×10 <sup>1</sup>	P: Electroplating by Ni/sn	T: Tape&Reel B: Bulk