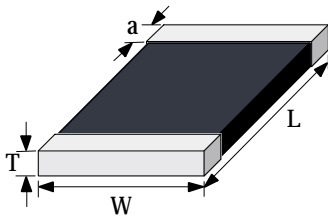


PolyDiode

0603 SMD N Series



Dimensions



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
T _{max.}	-	0.035	-	0.90
a	0.008	0.020	0.20	0.50
L	0.057	0.069	1.45	1.75
W	0.026	0.037	0.65	0.95

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

Further technical info

Please E-mail: service@jumbotek.com

Specifications

Packaging

Tape and Reel

T 7 inch reel (4,000 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 (αV) of clamping voltage (V_c) @ specified test current

<0.01%/°C

Power dissipation

0.05W 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 μ s)	max. clamping voltage at spec. current (8/20 μ s)	Nominal voltage at 1mA (DC) test current		typ. capacitance 1MHz	max. inductance
	V _{M(DC)} (V)	V _{M(AC)} (V)	I _{TM} (A)	V _C (V@A)	V _{N(DC)min.} (V)	V _{N(DC)max.} (V)	C _{typ.} (pF)	L _{typ.} (nH)
PD03S030N122PT	3.3	2.5	30	10.0@ 2	3.8	7.0	1200	1.0
PD03S050N361PT	5.5	4.0	20	15.5@ 1	7.1	9.8	360	1.0
PD03S050N641PT	5.5	4.0	30	15.5@ 2	7.1	9.8	640	1.0
PD03S090N301PT	9.0	6.0	30	23.0@ 2	10.0	14.5	300	1.0
PD03S120N301PT	12.0	9.0	30	27.0@ 2	14.0	18.5	300	1.0
PD03S140N241PT	14.0	11.0	30	30.0@ 2	16.0	21.0	240	1.0
PD03S180N221PT	18.0	14.0	30	40.0@ 2	22.0	28.0	220	1.0
PD03S220N181PT	22.0	17.0	30	44.0@ 2	24.3	30.0	180	1.0
PD03S260N101PT	26.0	20.0	30	58.0@ 2	29.5	38.0	100	1.0
PD03S300N101PT	30.0	25.0	30	65.0@ 2	35.0	43.0	100	1.0
PD03S380N800PT	38.0	30.0	30	85.0@ 2	42.3	51.7	80	1.0
PD03S180N400PT	18.0	14.0	5	45.0@ 1	22.0	32.0	40	1.0
PD03S05UN331PT	5.5	4.0	30	19.0@ 1	8.0	12.0	330	1.0

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

How to order

PD	03	S	030	N	122	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 _{M(DC)}		122= 12×10 ² 361= 36×10 ¹	P: Electroplating By Ni/sn	T: Tape&Reel B: Bulk