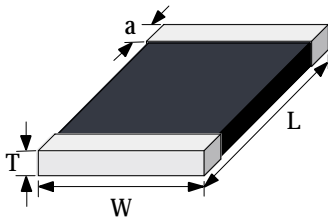


ESD、EFT、Surge Suppressor & EMI/RFI Filter

0603 N Series



Dimensions



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
Tmax.	-	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

Features

- Extra low clamping voltage
- Excellent ESD endurance capability
- Excellent surge suppression capability
- Bidirectional clamping in a two-pin device
- Low leakage current
- No derating of maximum up to 85°C
- Adequate to replace a silicon TVS diode+EMC capacitor combination for save board space and mounting cost

Applications examples

- Desktop and Note PC
- Audio input-output terminal
- GPS systems
- Cellular phone
- CD/MD/MP3 player
- Portable devices (PDA, DSC, BlueTooth..)

WebLinks

Further infos see:

www.jumobotek.com

Further technical infos

Please E-mail: service@jumobotek.com

Specifications

- Packaging
Tape and Reel
T¹ 7 inch reel (4,000 pcs.)
- Material
Body: Semiconducting Ceramic
Terminals: Ni/Sn plated (code "P")
- Operating Temperature
-40 to +85°C (without derating)
- Solderability
260°C 2 sec (IEC 60068-2-58)
- Soldering Heat Resistance
260°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.
- Withstand ESD durability test severity of IEC 61000-4-2 Level 4 :
Contact discharge mode ; typical 8KV,max 20KV
Air discharge mode ; typical 15KV,max 30KV
Standards
IEC 61000-4-2
IEC 61000-4-3
IEC 61000-4-4
IEC 61000-4-5

Type	Maximum continuous working voltage	Breakdown voltage at 1mA(DC) test current	Max. clamping voltage at spec. current (8/20 μ s)	Typ. Capacitance 1MHz	Typical Inductance
	$V_{M(DC)}$ (V)	$V_{N(DC)}$ (V)	V_c (V@A)	$C_{typ.}$ (pF)	$L_{typ.}$ (nH)
PD03S030N701PT	3.3	4.5 ~ 6.0	10.5@ 1	630 ~ 770	1.0
PD03S050N651PT	5.5	8.0 ~ 11.0	18.5@ 1	570 ~ 710	1.0
PD03S120N311PT	12.0	16.0 ~ 19.0	27.5@ 1	270 ~ 330	1.0
PD03S180N231PT	18.0	23.0 ~ 28.0	40.5@ 1	200 ~ 250	1.0

How to order

PD	03	S	030	N	701	P	T
Type code	Chip Size	Single Chip	Allowable Working voltage	Normal application	Capacitance Code	Termination Code	Packing Code
PolyDiode	03 = EIA0603		030 = 3.3VDC		701= 70 \times 10 ¹ 231= 23 \times 10 ¹	P: Electroplating by <u>Ni/Sn</u>	T: Tape&Reel B: Bulk