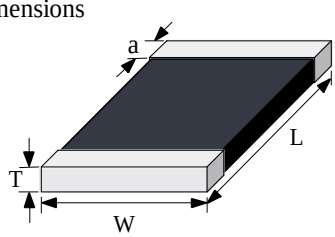
JumboTek RoHS PolyDiode™

ESD、EFT、Surge Suppressor & EMI/RFI Filter

0402 H Series

Dimensions



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
Tmax.	-	0.024	-	0.60
a	0.004	0.016	0.10	0.40
L	0.035	0.043	0.90	1.10
W	0.016	0.024	0.40	0.60

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
- Low capacitance
- Low clamping voltage compared to typical MLV ESD devices
- Capable of withstanding numerous ESD strikes
- RoHS compliant

Application examples

- USB 2.0 and IEEE 1394
- DVI and HDMI interfaces
- HDTV
- High speed Ethernet
- PHS
- GPS
- Blue Tooth,PDA,DSC
- Antennas
- Printer ports
- Cellular phones

Specifications

- Packaging
  Tape and Reel
  T 7 inch reel (10,000 pcs.)
- Material
  Body: Semiconducting Ceramic
  Terminals: Ni/Sn plated (code "P")
- Operating Temperature
  -40 to +85℃ (without derating)
- Solderability
  260℃ 2 sec (IEC 60068-2-58)
- Soldering Heat Resistance
  260℃ 5 sec. (IEC 60068-2-58)
- Response Time
  <0.5ns
- Temperature coefficient(α V) of clamping voltage (Vc) @ specified test current
  <0.01%/ ℃
- 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

	Maximum Ratings (125℃)		Specifications (25℃)		
Type	Allowable continuous working voltage V_{DC} (V)	Breakdown voltage at 1mA(DC) test current $V_{N(DC)Min.}$ (V)	Max. clamping voltage at spec. current (8/20 μ s) V_C (V@A)	Typ. Capacitance 1MHz $C_{typ.}$ (pF)	Typical Inductance $L_{typ.}$ (nH)
PD02S180H300PT	2~18	22.0	50@ 1	30	0.8
PD02S180H200PT	2~18	22.0	50@ 1	20	0.8
PD02S180H100PT	2~18	22.0	55@ 1	10	0.8
PD02S180H030PT	2~18	45.0	110@ 1	3	0.8
PD02S180H020PT	2~18	74.0	165@ 1	2	0.8
PD02S180H050PT	2~18	45.0	100@ 1	5	0.8
PD02S050H030PT	2~ 5	135.0	250@ 1	3	0.8
PD02S180H010PT	2~18	320.0	--	1	0.8

How to order

PD	02	S	180	H	300	P	T
Type code PolyDiode	Chip Size 02= EIA0402	Single Chip	Allowable Working voltage 180= 2~18 VDC 050= 2~ 5 VDC	H High-speed signal line application	Capacitance Code 300= 30×10^0 050= 5×10^0	Termination Code P: Electroplating by Ni/Sn	Packing Code T: Tape&Reel B: Bulk

Specifications are subject to change without notice