

**STANDARD TVS COMPONENTS****APPLICATIONS**

- ✓ Noise Suppression for Data Lines
- ✓ Laptop Computers
- ✓ Cellular Phones
- ✓ Digital Cameras
- ✓ Personal Digital Assistant (PDA)

**IEC COMPATIBILITY (EN61000-4)**

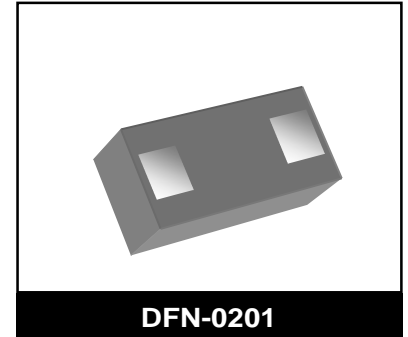
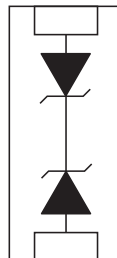
- ✓ 61000-4-2: ESD Protection

**FEATURES**

- ✓ 10 Watts Peak Pulse Power per Line ( $t_p=8/20\mu s$ )
- ✓ Industry's First 0201 Package for ESD Protection
- ✓ Bidirectional Configuration
- ✓ Protects One Data Line
- ✓ Low Clamping Voltage
- ✓ Easy Placement for Manufacturing
- ✓ Low Capacitance
- ✓ RoHS Compliant

**MECHANICAL CHARACTERISTICS**

- ✓ DFN-0201 Package
- ✓ Weight 0.8 milligrams (Approximate)
- ✓ Available in Lead-Free
- ✓ Flammability Rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481
- ✓ Device Part Number on Reel & Marking Code on Device

**PIN CONFIGURATION**

# P0201D05C

## DEVICE CHARACTERISTICS

### MAXIMUM RATINGS @ 25°C Unless Otherwise Specified

PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	$T_{OPR}$	-50 to 150	°C
Storage Temperature	$T_{STG}$	-55 to 150	°C
Junction Temperature	$T_A$	150	°C

### ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

PART NUMBER	DEVICE MARKING CODE	RATED STAND-OFF VOLTAGE  $V_{WM}$ VOLTS	MINIMUM BREAKDOWN VOLTAGE  @ 1mA $V_{(BR)}$ VOLTS	MAXIMUM LEAKAGE CURRENT  @3.5V $I_b$ $\mu A$	TYPICAL CAPACITANCE  @0V, 1 MHz C pF
P0201D05C	X	4.7	5.7	1.0	5

# P0201D05C

## DFN-0201 PACKAGE OUTLINE & DIMENSIONS

**PACKAGE OUTLINE**

**PACKAGE DIMENSIONS**

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.60 BSC	0.60 BSC	0.024 BSC	0.024 BSC
B	0.30 BSC	0.30 BSC	0.012 BSC	0.012 BSC
C	0.27	0.34	0.011	0.013
H	0~0.05	0~0.05	0~0.002	0~0.002
L1	0.20	0.30	0.008	0.012
L2	0.13	0.23	0.005	0.007
L3	0.14	0.24	0.006	0.009
L4	0.35 BSC	0.35 BSC	0.014 BSC	0.014 BSC

**NOTES**

- Controlling dimensions in inches.

**TAPE & REEL ORIENTATION**

**NOTE**

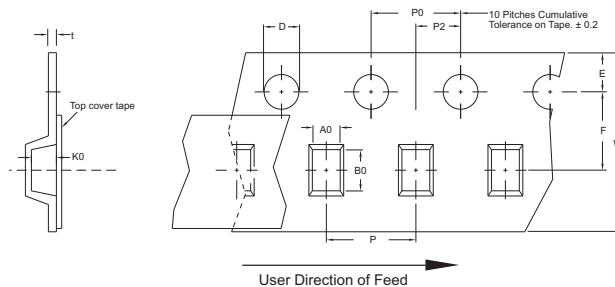
- Top view of tape. Solder PADS face down in tape package.

**TAPE & REEL ORDERING NOMENCLATURE**

- Surface mount product is taped and reeled in accordance with EIA-481.
- Suffix -T710 = 7 Inch Reel - 10,000 pieces per 8mm tape, i.e., P0201D05C-T710.

Tape & Reel Specifications (Dimensions in millimeters)

Reel Dia.	Tape Width	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")/330mm(13")	8mm	0.37±0.03	0.67±0.03	0.35 ± 0.03	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	2.00 ± 0.05	1.00 ± 0.05	2.00 ± 0.05	0.25



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