

STANDARD TVS COMPONENTS

APPLICATIONS

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

IEC COMPATIBILITY (EN61000-4)

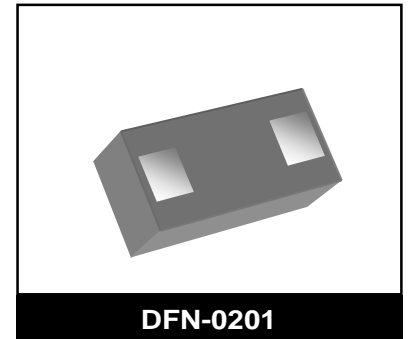
- ✓ 61000-4-2: ESD Protection

FEATURES

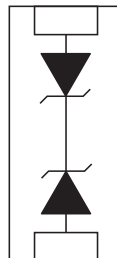
- ✓ 10 Watts Peak Pulse Power per Line ($t_p=8/20\mu s$)
- ✓ Industry's First 0201 Package for ESD Protection
- ✓ Bidirectional Configuration
- ✓ Protects One Data Line
- ✓ Low Clamping Voltage
- ✓ Easy Placement for Manufacturing
- ✓ Low Capacitance
- ✓ RoHS Compliant

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 μA	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

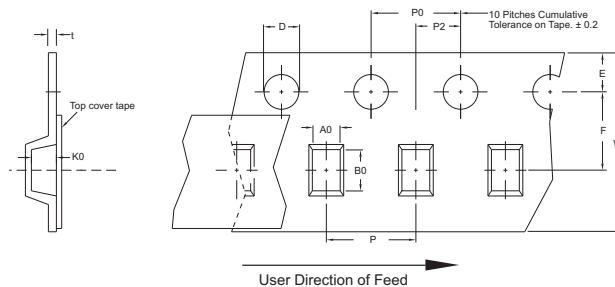
- Top view of tape. Solder PADS face down in tape package.

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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DESIGN CHANGES: ProTek reserves the right to discontinue product lines without notice, and that the final judgement concerning selection and specifications is the buyer's and that in furnishing engineering and technical assistance, ProTek assumes no responsibility with respect to the selection or specifications of such products.

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