

EMI FILTER/TVS ARRAY

APPLICATIONS

- ✓ Cellular Phones
- ✓ SMART Cards
- ✓ Notebooks
- ✓ Personal Digital Assistant (PDA)
- ✓ Ground Positioning System (GPS)

IEC COMPATIBILITY (EN61000-4)

- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

FEATURES

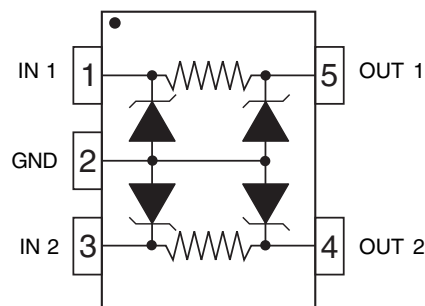
- ✓ ESD Protection > 25 kilovolts
- ✓ 175 Watts Peak Pulse Power per Line ($t_p = 8/20\mu s$)
- ✓ Bidirectional EMI Filtering
- ✓ Low Insertion Loss: Up to 10MHz, -3db Roll-Off @ 40MHz
- ✓ Protects Up to Two (2) Data Lines

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SC-70-5L
- ✓ Weight 0.1 grams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481
- ✓ Marking: Marking Code & Pin One Defined By Dot on Top of Package



PIN CONFIGURATION

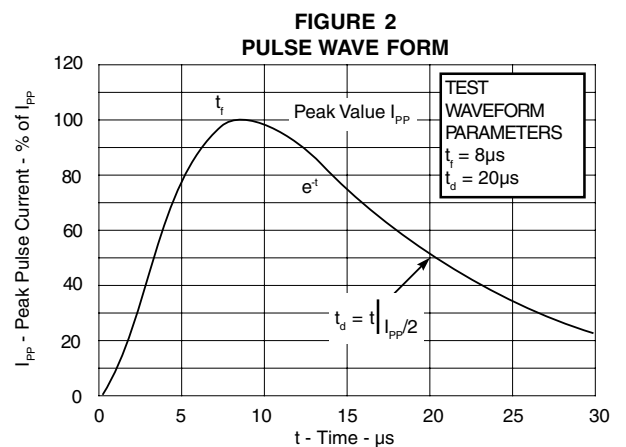
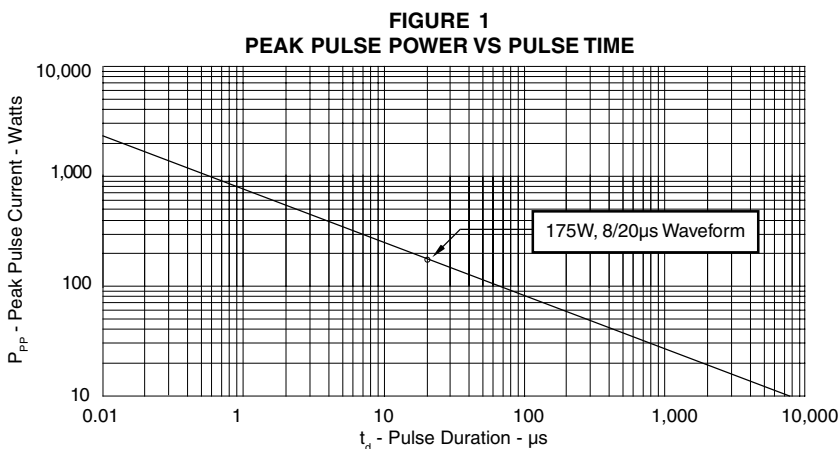


DEVICE CHARACTERISTICS

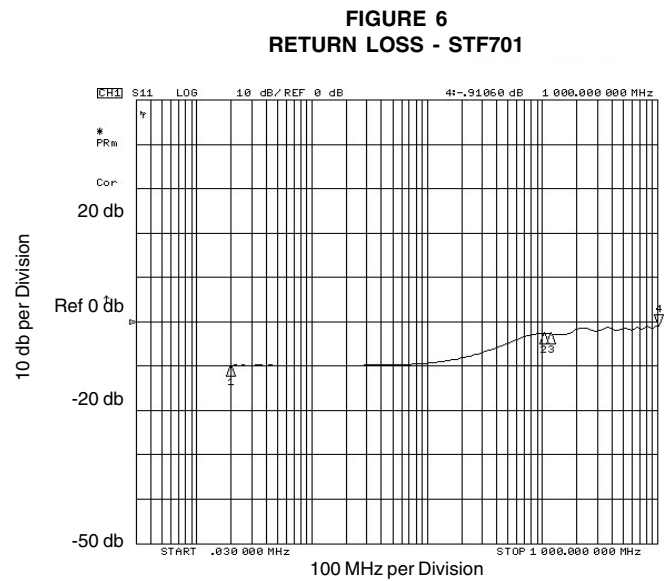
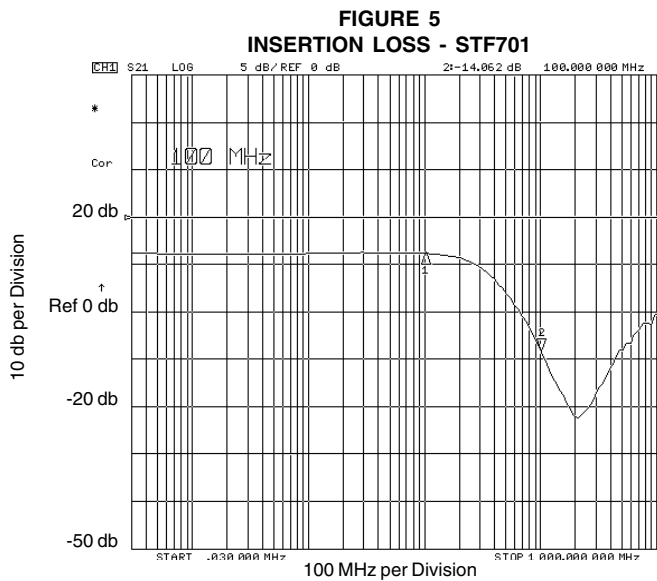
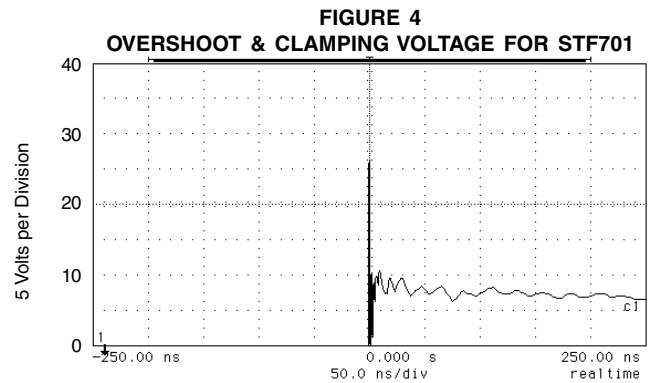
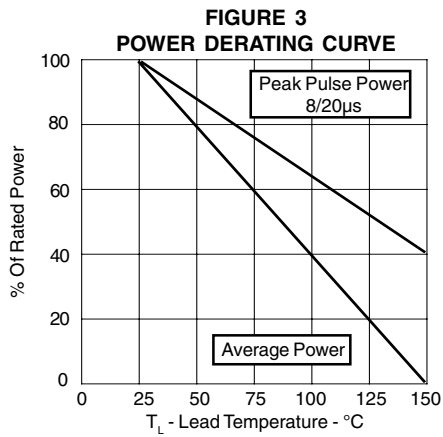
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p = 8/20\mu s$) - See Figure 1	P_{PP}	175	Watts
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Typical Series Resistance per Line	R	40	Ohms

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	DEVICE MARKING	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM REVERSE LEAKAGE CURRENT	MAXIMUM REVERSE LEAKAGE CURRENT	TYPICAL CAPACITOR (Per Junction)	MAXIMUM CAPACITANCE (See Note 1)
		V_{WM} VOLTS	@ 1mA $V^{(BR)}$ VOLTS	@ V_{WM} I_D μA	@ 3.3V I_D μA	@ 0V, 1 MHz C_J pF	@ 0V, 1 MHz C_{TOT} pF
STF701	05F	5.0	6.0	5.0	1.0	40	160

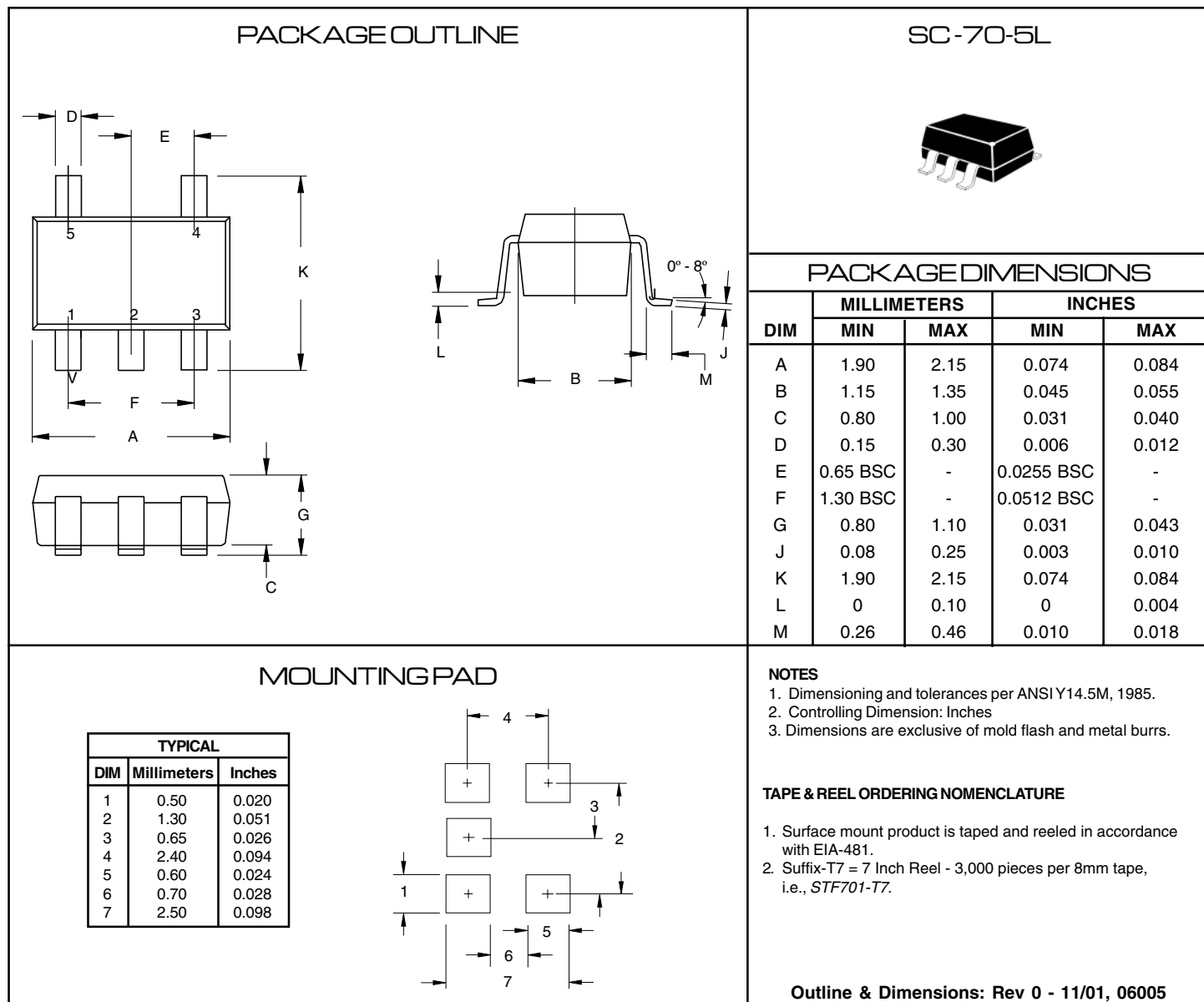
Note 1: Capacitance measured between input and output, per line.



GRAPHS



PACKAGE OUTLINE & DIMENSIONS



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ProTek Devices
 2929 South Fair Lane, Tempe, AZ 85282
 Tel: 602-431-8101 Fax: 602-431-2288
 E-Mail: sales@protekdevices.com
 Web Site: www.protekdevices.com