

STANDARD CAPACITANCE TVS ARRAY

APPLICATIONS

- ✓ Low Frequency I/O Ports
- ✓ RS-232 & RS-423 Data Lines
- ✓ Power Bus Lines
- ✓ Monitoring & Industrial Signal and Data Ports
- ✓ Microprocessor Based Equipment

IEC COMPATIBILITY (EN61000-4)

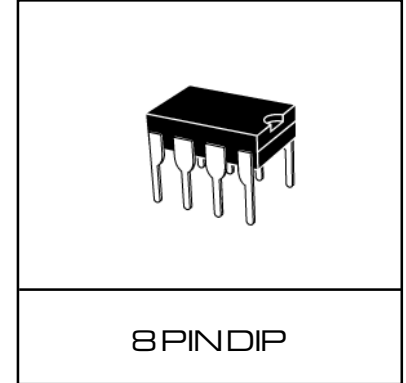
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 24A, 8/20 μ s Level 2 (Line-Ground) & Level 3 (Line-Line)

FEATURES

- ✓ 800 Watts Peak Pulse Power per Line ($t_p=8/20\mu$ s)
- ✓ Unidirectional & Bidirectional Configuration
- ✓ ESD Protection > 40 kilovolts
- ✓ Available in 5V, 12V, 15V & 24V
- ✓ Standard Dual-In-Line Package
- ✓ Protects 4 to 6 Lines

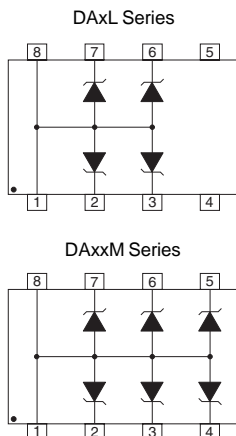
MECHANICAL CHARACTERISTICS

- ✓ Molded 8 Pin Dual-In-Line (DIP) Package
- ✓ Weight 0.55 grams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ Packaging: 50 Pieces Per Tube
- ✓ Marking: Logo, Part Number, Date Code & Pin One Defined By Dot on Top of Package

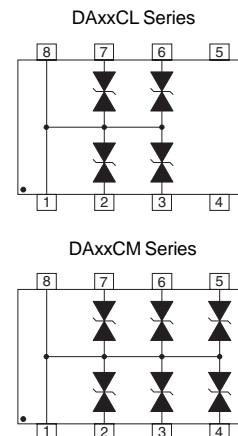


PIN CONFIGURATIONS

UNIDIRECTIONAL



BIDIRECTIONAL



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}	800	Watts
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Forward Surge Rating (See Note 1)	I_F	10	Amps

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER (See Notes 1 & 2)	RATED STAND-OFF VOLTAGE V_{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE @ 1mA $V_{(BR)}$ VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ $I_P = 1A$ V_C VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ 8/20 μs $V_C @ I_{PP}$	MAXIMUM LEAKAGE CURRENT @ V_{WM} I_D μA	TYPICAL CAPACITANCE @ 0V, 1 MHz C_J pF
DA12L	12.0	13.3	26.0	32.9V @ 34A	2	440
DA15L	15.0	16.7	33.0	37.7V @ 27A	2	400
DA24L	24.0	26.7	52.1	48.5V @ 22A	2	275
DA05M	5.0	6.0	12.5	24.6V @ 45A	200	880
DA12M	12.0	13.3	26.0	32.9V @ 34A	2	440
DA15M	15.0	16.7	33.0	37.7V @ 27A	2	400
DA24M	24.0	26.7	52.1	48.5V @ 22A	2	275
DA05CL	5.0	6.0	12.5	24.6V @ 45A	200	500
DA12CL	12.0	13.3	26.0	32.9V @ 34A	2	385
DA15CL	15.0	16.7	33.0	37.7V @ 27A	2	300
DA24CL	24.0	26.7	52.1	48.5V @ 22A	2	200
DA05CM	5.0	6.0	12.5	24.6V @ 45A	200	500
DA12CM	12.0	13.3	26.0	32.9V @ 34A	2	385
DA15CM	15.0	16.7	33.0	37.7V @ 27A	2	300
DA24CM	24.0	26.7	52.1	48.5V @ 22A	2	200

Note 1: *Unidirectional Only:* $V_F = 1.5$ Volts @ 10A, 300 μs (square wave).

Note 2: The "C" suffix specifies a bidirectional device, such as DA05CM or DA12CL.

GRAPHS

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

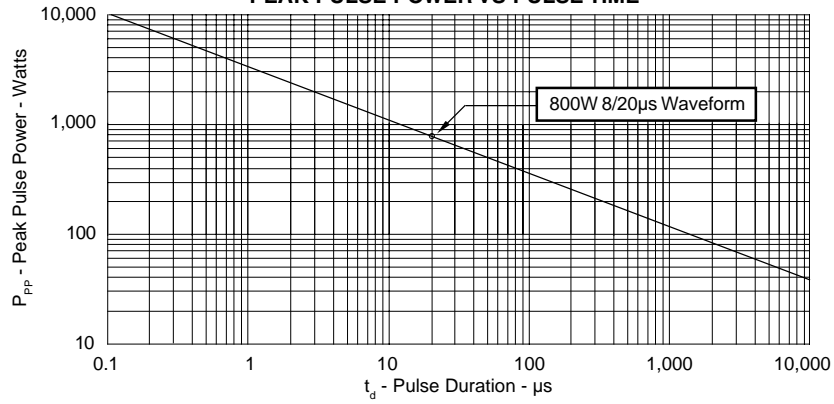


FIGURE 2
PULSE WAVE FORM

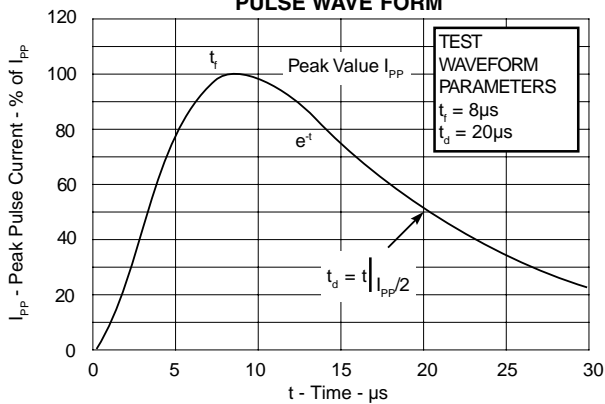
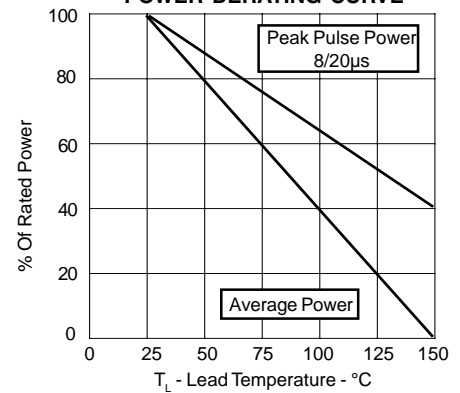
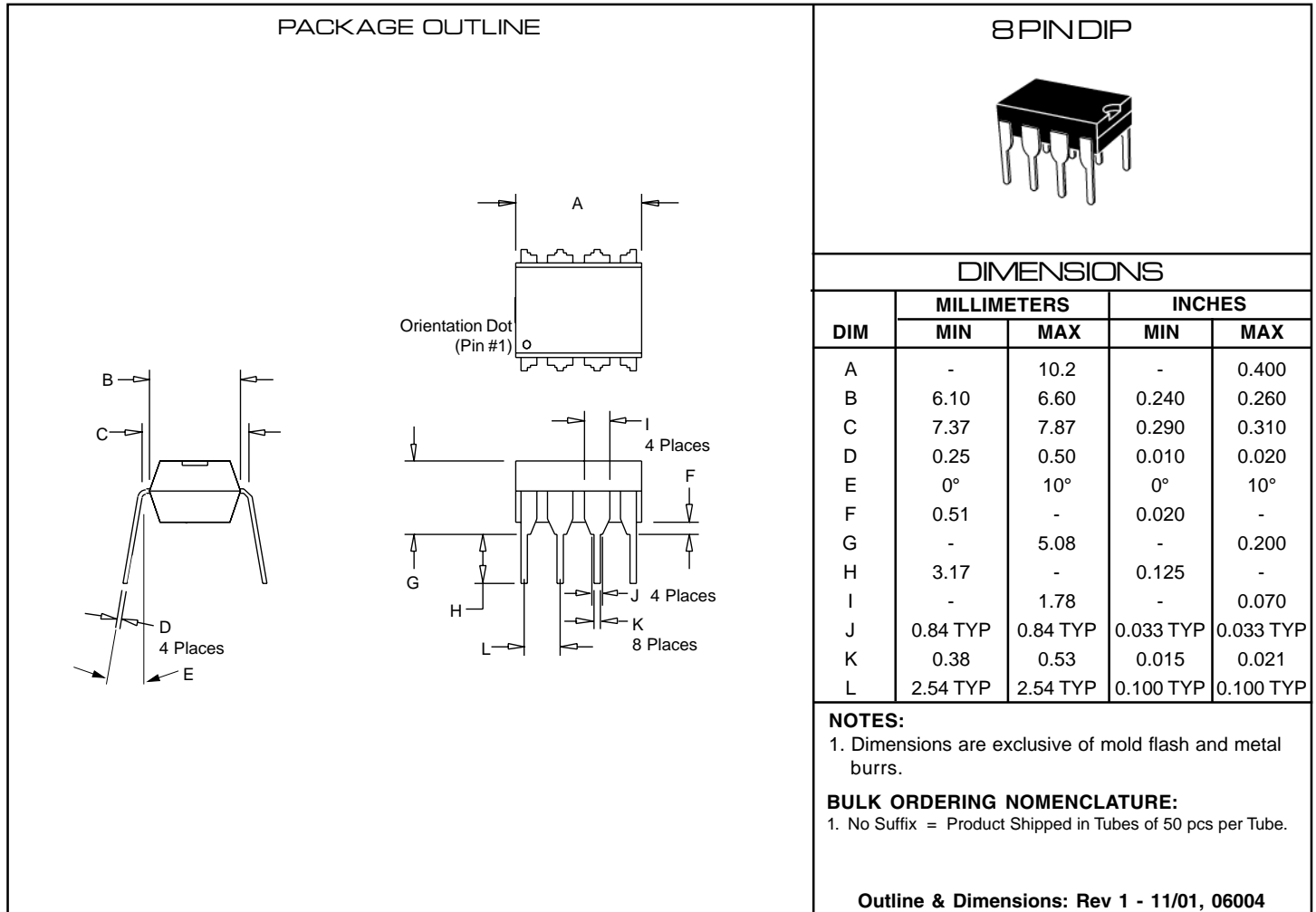


FIGURE 3
POWER DERATING CURVE



PACKAGE OUTLINE & DIMENSIONS



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