

STEERING DIODE ARRAY

APPLICATIONS

- ✓ High Frequency Data Lines
- ✓ RS-232 & RS-422 Interface Networks
- ✓ Ethernet - 10/100 Base T
- ✓ Computer I/O Ports

IEC COMPATIBILITY (EN61000-4)

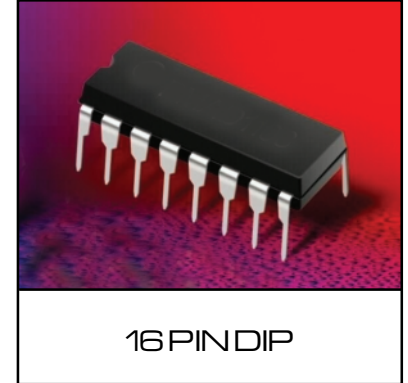
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 24A, 8/20 μ s Level 2 (Line-Ground) & Level 3 (Line-Line)

FEATURES

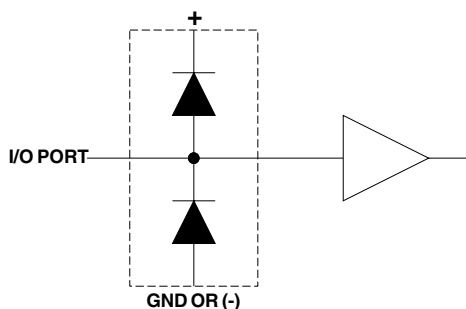
- ✓ 500 Milliwatt Continuous Power Dissipation
- ✓ ESD Protection > 40 kilovolts
- ✓ Provides Protection for 8 I/O Lines
- ✓ Working Voltage > 50 Volts
- ✓ Low Insertion Loss & Cross-talk
- ✓ **LOW LEAKAGE CURRENT < 0.1 μ A**
- ✓ **ULTRA LOW CAPACITANCE: 5pF Per Diode**

MECHANICAL CHARACTERISTICS

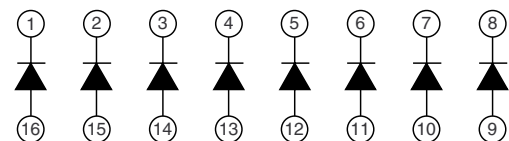
- ✓ Molded 16 Pin Dual-In-Line (DIP) Package
- ✓ Weight 1.2 grams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ Packaging: 25 Pieces Per Tube
- ✓ Marking: Logo, Part Number, Date Code & Pin One Defined By Dot on Top of Package



CIRCUIT DIAGRAM



PIN CONFIGURATION

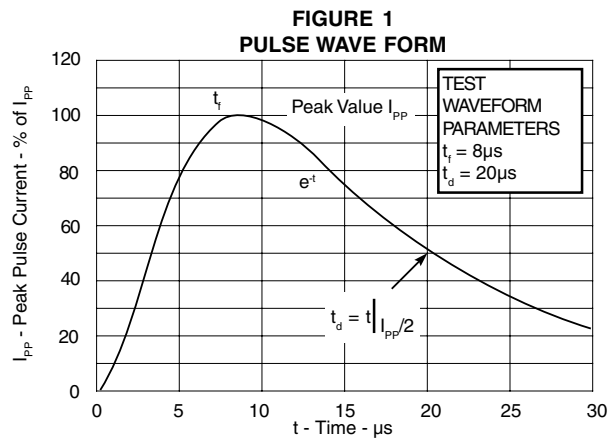


**8 ISOLATED DIODE ARRAY
8 LINES OF PROTECTION**

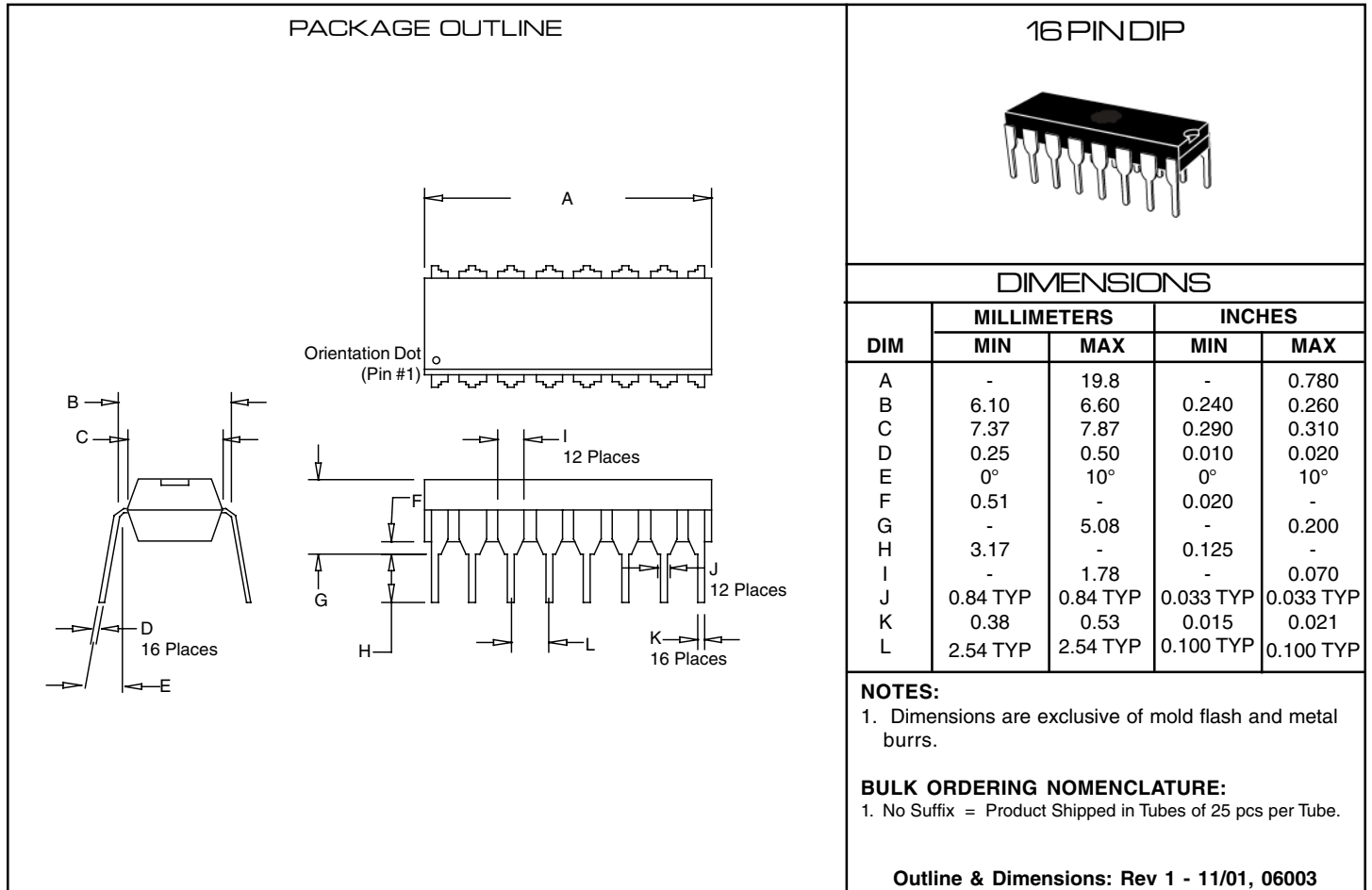
DEVICE CHARACTERISTICS

| MAXIMUM RATINGS @ 25°C Unless Otherwise Specified | | | |
|---|-----------|----------------|------------|
| PARAMETER | SYMBOL | VALUE | UNITS |
| Continuous Power Dissipation | P_{PK} | 500 | Milliwatts |
| Continuous Forward Current (Single Diode) | I_F | 400 | mA |
| Repetitive Peak Forward Current @ $t_p=5\mu s, F=50kHz$ | I_{FRM} | 700 | mA |
| Operating Temperature | T_J | -55°C to 150°C | °C |
| Storage Temperature | T_{STG} | -55°C to 150°C | °C |

| ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified | | | | | |
|---|--|---|---|--|--|
| PART NUMBER | REPETITIVE PEAK REVERSE VOLTAGE @ 10μA V_{RRM} VOLTS | MAXIMUM FORWARD PEAK PULSE CURRENT @ 8/20μs I_{FM} AMPS | MAXIMUM FORWARD VOLTAGE @ 100mA V_F VOLTS | MAXIMUM REVERSE LEAKAGE CURRENT V_{RRM} @ 40V I_R μA | MAXIMUM CAPACITANCE (Per Diode) @ 4V, 1 MHz C_i pF |
| PMAD1108 | 50 | 40 | 1.2 | 0.1 | 5 |



PACKAGE OUTLINE & DIMENSIONS



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