

STEERING DIODE ARRAYS

APPLICATIONS

- High Frequency Data Lines
- RS-232 & RS-422 Interface Networks
- 10 Base T Networks
- LAN/ WAN
- Computer I/O Ports

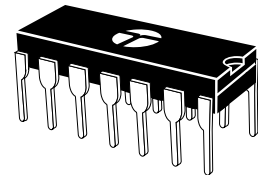
FEATURES

- IEC 1000-4-2, -4 & -5 Industry Requirements
- Designed for Bus Voltage Protection
- ESD Protection > 40 kilovolts
- Low Capacitance - 5 pF
- Working Voltage > 50 Volts
- UL 94V-0 Flammability Classification
- Available in Standard 14 Pin Dual-in-Line Package

DESCRIPTION

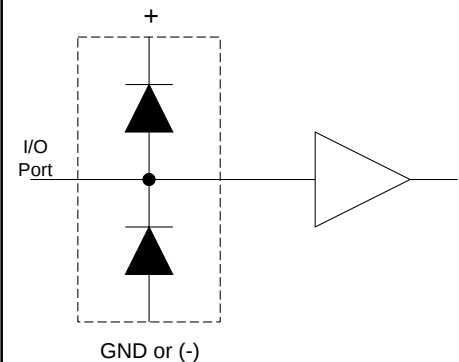
This series is designed with discrete diodes for complete isolation. Each diode can be individually tested according to the electrical characteristics. For transient voltage protection, two diodes are configured in series with the anode of one connected to the cathode of the other diode (Circuit Diagram).

IEC 1000-4 COMPATIBLE



14 PIN DIP PACKAGE

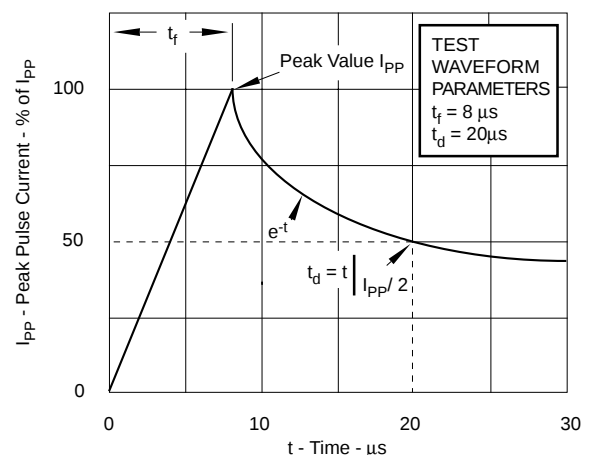
CIRCUIT DIAGRAM



SEE DIAGRAMS ON FOLLOWING PAGE.

MAXIMUM RATINGS @ 25°C Ambient Temperature (unless specified)	
Continuous Power Dissipation	500mW
Operating & Storage Temperature	-55° to +150°C
Continuous Forward Current	400mA
MECHANICAL CHARACTERISTICS	
Package	Molded 14 Pin DIP
Packaging	Tube or 16mm Tape per EIA 481
Approximate Weight	0.15 grams
Device Markings	Logo & Part Number
Miscellaneous	Pin No. 1 Indicated by Dot on Top of Package

**FIGURE 1
PULSE WAVE FORM**



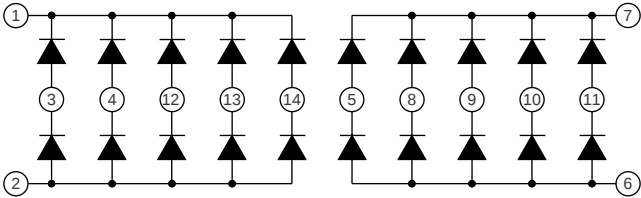
ELECTRICAL CHARACTERISTICS @ 25° C Ambient Temperature

PROTEK PART NUMBER	REPETITIVE PEAK REVERSE VOLTAGE @ 10 μ A V_{RRM} VOLTS	REVERSE LEAKAGE CURRENT @ 40 V I_{RM} μ A	MAXIMUM FORWARD VOLTAGE @ 100 mA V_F VOLTS	FORWARD PEAK PULSE CURRENT (See Fig. 1) @ 8/20 μ s I_{FM} AMPS	MAXIMUM CAPACITANCE @ 4 V, 1 MHz C pF
See Note 1	50	0.1	1.2	40	5

Note 1: Device Types Include: PMAD130, PMAD1103, PMAD1105, PMAD1107 and PMAD1109. Electrical characteristics applies to all device types.

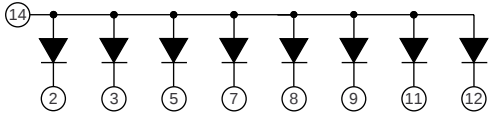
CIRCUIT DIAGRAM

PMAD130



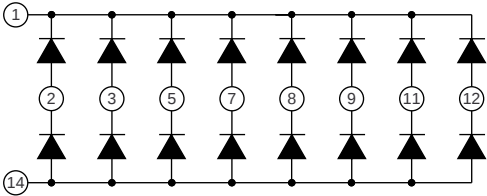
DUAL 10 DIODE ARRAY

PMAD1106



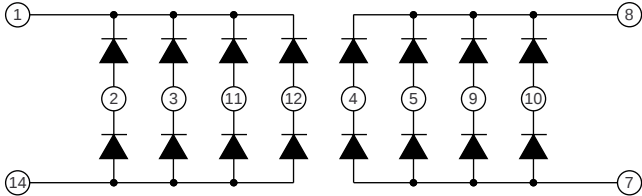
8 DIODE COMMON ANODE ARRAY
NC Pin 1, 4, 6, 10 & 13

PMAD1103



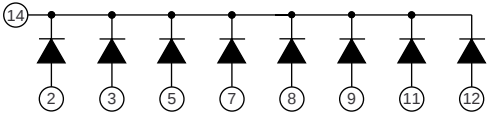
14 DIODE ARRAY
NC Pins 4, 6, 10 & 13

PMAD1107



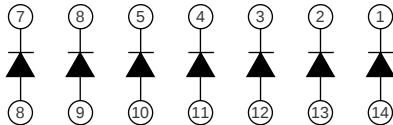
DUAL 8 DIODE ARRAY
NC Pins 6 & 13

PMAD1105



8 DIODE COMMON CATHODE ARRAY
NC Pins 1, 4, 6, 10 & 13

PMAD1109



7 ISOLATED DIODE ARRAY
(Independent)

14 PIN PLASTIC DIP

