



IEC 1000-4 COMPATIBLE

STEERING DIODE ARRAYS

APPLICATIONS

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

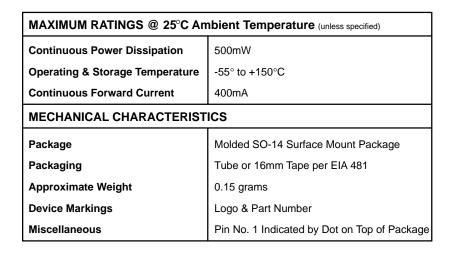
FEATURES

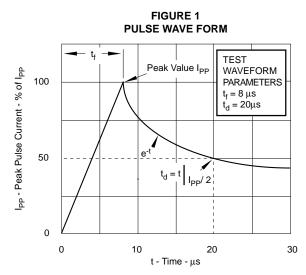
- IEC 1000-4-2, -4 & -5 Industry Requirements
- Designed for Bus Voltage Protection
- ESD Protection > 40 kilovolts
- Low Capacitance 5 pF
- Working Voltage > 50 Volts
- UL 94V-0 Flammability Classification
- Available in Standard SO-14 Surface Mount Package

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 (See Circuit Diagram).

SO-14 PACKAGE					
CIRCUIT DIAGRAM					
I/O Port					
	GND or (-)				
SEE D	IAGRAMS ON	FOLLO	WING PAGE.		





ELECTRICAL CHARACTERISTICS @ 25° C Ambient Temperature							
PROTEK PART NUMBER	REPETITIVE PEAK REVERSE VOLTAGE	REVERSE LEAKAGE CURRENT @ 40 V	MAXIMUM FORWARD VOLTAGE	FORWARD PEAK PULSE CURRENT (See Fig. 1)	MAXIMUM CAPACITANCE @ 4 V, 1 MHz		
	@ 10 μA V _{RRM} VOLTS	I _{RM} μΑ	@ 100 mA V _F VOLTS	@ 8/20 μs Ι _{FM} AMPS	C pF		
See Note 1	50	0.1	1.2	40	5		

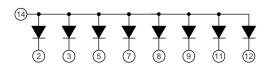
Note 1: Device Types Include: PMMAD130, PMMAD1103, PMMAD1105, PMMAD1106, PMMAD1107 and PMMAD1109. Electrical characteristics applies to all device types.

CIRCUIT DIAGRAM

PMMAD130

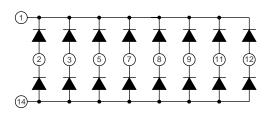
DUAL 10 DIODE ARRAY

PMMAD1106



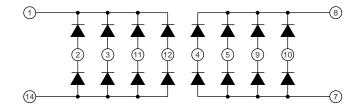
8 DIODE COMMON ANODE ARRAY NC Pin 1, 4, 6, 10 & 13

PMMAD1103



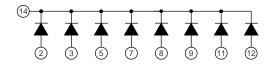
14 DIODE ARRAY NC Pins 4, 6, 10 & 13

PMMAD1107



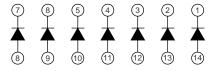
DUAL 8 DIODE ARRAY NC Pins 6 & 13

PMMAD1105



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

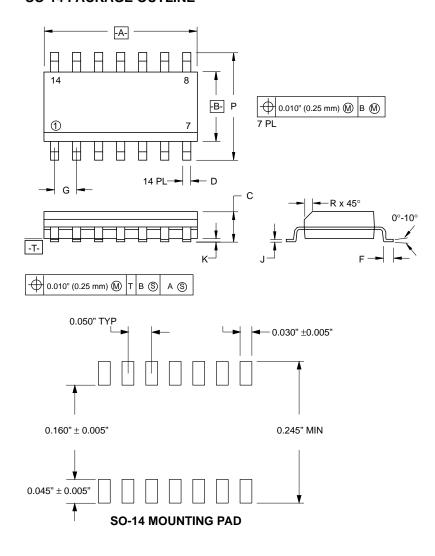
PMMAD1109



7 ISOLATED DIODE ARRAY (Independent)

2

SO-14 PACKAGE OUTLINE



SO-14 PACKAGE DIMENSIONS

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	8.55	10.00	0.386	0.393
В	3.80	4.00	0.150	0.157
С	1.35	1.75	0.054	0.068
D	0.35	0.49	0.014	0.019
F	0.40	1.25	0.016	0.049
G	1.27 BCS	1.27 BSC	0.05 BSC	0.05 BSC
J	0.19	0.25	0.008	0.009
K	0.10	0.25	0.004	0.009
Р	5.80	6.20	0.229	0.244
R	0.25	0.50	0.0.10	0.019

COPYRIGHT © ProTek Devices 1999

SPECIFICATIONS: ProTek reserves the right to change the electrical and or mechanical characteristics described herein without notice (except JEDEC).

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.