

PMMAD SERIES

IEC 1000-4 COMPATIBLE

STEERING DIODE (RAIL CLAMP) ARRAY

APPLICATIONS

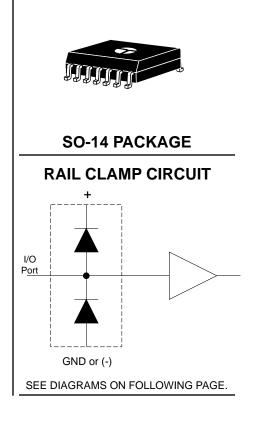
- High Frequency Data Lines
- RS-232 & RS-422 Interface Networks
- 10 Base T Networks
- LAN/ WAN
- Computer I/O Ports

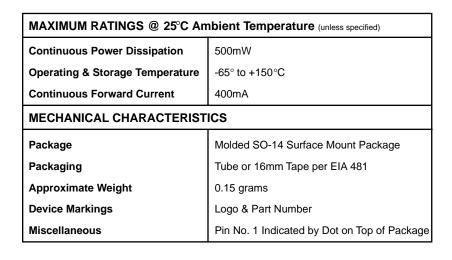
FEATURES

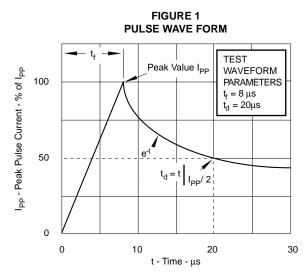
- IEC 1000-4-2, -4 & -5 Industry Requirements
- Designed for Rail Clamp Protection
- ESD Protection > 40 kilovolts
- Working Voltage > 50 Volts
- UL 94V-0 Flammability Classification
- Available in Standard SO-14 Surface Mount Package

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 connect to the cathode of the other diode (See Rail Clamp Circuit).





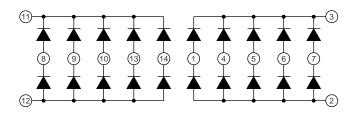


ELECTRICAL CHARACTERISTICS @ 25° C Ambient Temperature									
PROTEK PART NUMBER	REPETITIVE PEAK REVERSE VOLTAGE	REVERSE LEAKAGE CURRENT	MAXIMUM FORWARD VOLTAGE	FORWARD PEAK PULSE CURRENT (See Fig. 1)	MAXIMUM CAPACITANCE				
	@ 10 μA V _{PRP Min} VOLTS	@ 40 V I _{RM} μ A	@ 100 mA V _F VOLTS	@ 8/20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

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

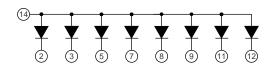
CIRCUIT DIAGRAM

PMMAD130



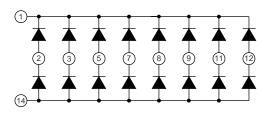
DUAL 10 DIODE ARRAY

PMMAD1106



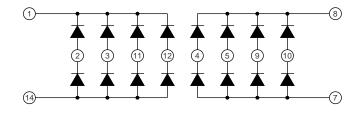
8 DIODE COMMON ANODE ARRAY NC Pin 1, 4, 6, 10 & 13

PMMAD1103



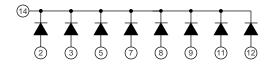
16 DIODE ARRAY NC Pins 4, 6, 10 & 13

PMMAD1107



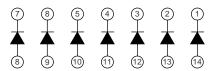
DUAL 8 DIODE ARRAY NC Pins 6 & 13

PMMAD1105



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

PMMAD1109



7 ISOLATED DIODE ARRAY (Independent)



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PMMAD1108

STEERING DIODE (RAIL CLAMP) ARRAY

ELECTRICAL CHARACTERISTICS @ 25° C Ambient Temperature								
PROTEK PART NUMBER	REPETITIVE PEAK REVERSE VOLTAGE	REVERSE LEAKAGE CURRENT	FORWARD PEAK PULSE CURRENT	MAXIMUM FORWARD VOLTAGE	MAXIMUM CAPACITANCE			
	@ 10 μA V _{PRP Min} VOLTS	@ 40 V Ι _{RM} μΑ	(See Fig. 1) @ 8/20 μs Ι _{ΡΡ} AMPS	@ 100 mA V _F VOLTS	@ 4 V, 1 MHz C pF			
PPMAD1108	50	0.1	40	1.2	25			

APPLICATIONS

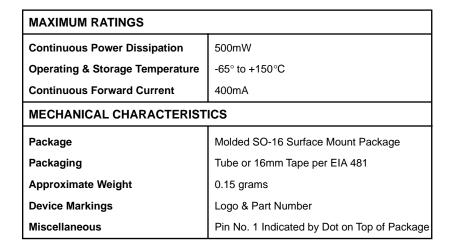
- High Frequency Data Lines
- RS-232 & RS-422 Interface Networks
- 10 Base T Networks
- LAN/ WAN
- Computer I/O Ports

FEATURES

- IEC 1000-4-2, -4 & -5 Industry Requirements
- Eight (8) Individual Steering Diodes
- Designed for Rail Clamp Protection
- ESD Protection > 40 kilovolts
- Working Voltage > 50 Volts
- UL 94V-0 Flammability Classification
- Available in Standard SO-14 Surface Mount Package

DESCRIPTION

This device 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 connect to the cathode of the other diode (See Rail Clamp Circuit).

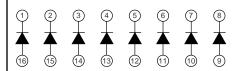


IEC 1000-4 COMPATIBLE



SO-16 PACKAGE

CIRCUIT DIAGRAM



PMMAD1108 8 ISOLATED DIODE ARRAY

RAIL CLAMP CIRCUIT

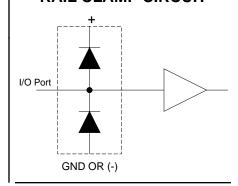
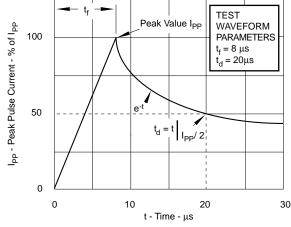


FIGURE 1
PULSE WAVE FORM



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