

查询PLA132供应商

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MICRO CHIPS.
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捷多邦, 专业PCB打样工厂, 24小时加急出货

PLA132

SINGLE POLE OptoMOS® Relays



| | PLA132 | Units |
|---------------------|--------|-------|
| Load Voltage | 50 | V |
| Load Current | 600 | mA |
| Max R _{ON} | 1 | Ω |

Features

- Small 6 Pin DIP Package
- Low Drive Power Requirements (TTL/CMOS Compatible)
- No Moving Parts
- High Reliability
- Arc-Free With No Snubbing Circuits
- 3750V_{RMS} Input/Output Isolation
- FCC Compatible
- VDE Compatible
- No EMI/RFI Generation
- Machine Insertable, Wave Solderable
- Surface Mount and Tape & Reel Versions Available

Applications

- Instrumentation
 - Multiplexers
 - Data Acquisition
 - Electronic Switching
 - I/O Subsystems
 - Meters (Watt-Hour, Water, Gas)
- Medical Equipment—Patient/Equipment Isolation
- Security
- Aerospace
- Industrial Controls
- Automotive

Description

PLA132 is a 50V, 600mA, 1Ω 1-Form-A relay. This performance leader features very high load current handling capabilities.

Approvals

- UL Recognized: File Number E76270
- CSA Certified: File Number LR 43639-10
- BSI Certified to:
 - BS EN 60950:1992 (BS7002:1992) Certificate #: 7344
 - BS EN 41003:1993 Certificate #: 7344

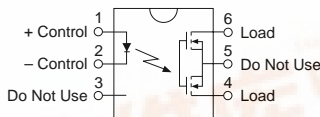
Ordering Information

| Part # | Description |
|-----------|----------------------------------|
| PLA132 | 6 Pin DIP (50/Tube) |
| PLA132S | 6 Pin Surface Mount (50/Tube) |
| PLA132STR | 6 Pin Surface Mount (1,000/Reel) |

Pin Configuration

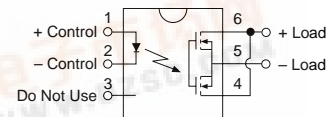
PLA132 Pinout

AC/DC Configuration

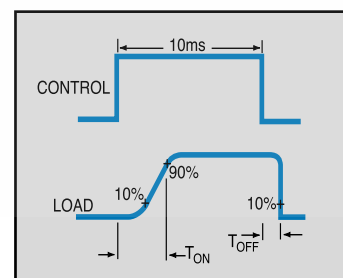


PLA132 Pinout

DC Only Configuration



Switching Characteristics of Normally Open (Form A) Devices





PLA132

Absolute Maximum Ratings (@ 25° C)

| Parameter | Min | Typ | Max | Units |
|---|------|-----|------------------|------------------|
| Input Power Dissipation | - | - | 150 ¹ | mW |
| Input Control Current Peak (10ms) | - | - | 50 1 | mA A |
| Reverse Input Voltage | - | - | 5 | V |
| Total Power Dissipation | - | - | 800 ² | mW |
| Capacitance Input to Output | - | 3 | - | pF |
| Isolation Voltage Input to Output | 3750 | - | - | V _{RMS} |
| Operational Temperature | -40 | - | +85 | °C |
| Storage Temperature | -40 | - | +125 | °C |
| Soldering Temperature | | | | |
| DIP Package | - | - | +260 | °C |
| Surface Mount Package (10 Seconds Max.) | - | - | +220 | °C |

¹ Derate Linearly 1.33 mw/°C

² Derate Linearly 6.67 mw/°C

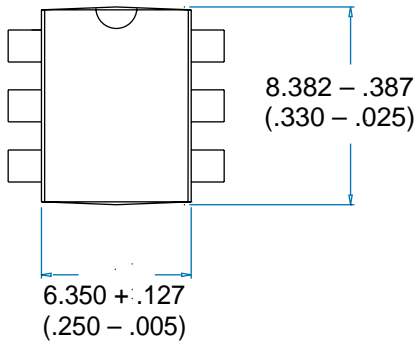
Absolute Maximum Ratings are stress ratings. Stresses in excess of these ratings can cause permanent damage to the device. Functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this data sheet is not implied. Exposure of the device to the absolute maximum ratings for an extended period may degrade the device and effect its reliability.

Electrical Characteristics

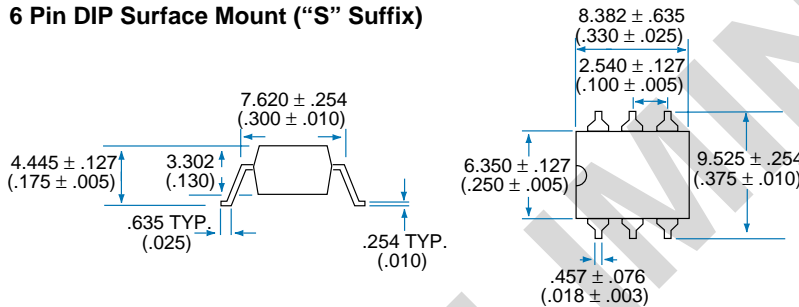
| Parameter | Conditions | Symbol | Min | Typ | Max | Units |
|--------------------------------------|--|-------------------|------|-----|-----|------------------|
| Output Characteristics @ 25°C | | | | | | |
| Load Voltage (Peak) | - | V _L | - | - | 50 | V |
| Load Current (Continuous) | | | | | | |
| AC/DC Configuration | - | I _L | - | - | 600 | mA |
| DC Configuration | - | I _L | - | - | 1.2 | A |
| Peak Load Current | 10ms | I _{LPK} | - | - | 2.0 | A |
| On-Resistance | | | | | | |
| AC/DC Configuration | I _L =600mA | R _{ON} | - | - | 1.0 | Ω |
| DC Configuration | I _L =1.0A | R _{ON} | - | - | 0.3 | Ω |
| Off-State Leakage Current | V _L =50V | I _{LEAK} | - | - | 1 | μA |
| Switching Speeds | | | | | | |
| Turn-On | I _F =5mA, V _L =10V | T _{ON} | - | - | 5 | ms |
| Turn-Off | I _F =5mA, V _L =10V | T _{OFF} | - | - | 2 | ms |
| Output Capacitance | 50V; f=1MHz | - | - | 100 | - | pF |
| Input Characteristics @ 25°C | | | | | | |
| Input Control Current | I _L =600mA | I _F | 5 | - | 50 | mA |
| Input Dropout Current | - | I _F | 0.4 | 0.7 | - | mA |
| Input Voltage Drop | I _F =10mA | V _F | 0.9 | 1.2 | 1.4 | V |
| Reverse Input Voltage | - | V _R | - | - | 5 | V |
| Reverse Input Current | V _R =5V | I _R | - | - | 10 | μA |
| Common Characteristics @ 25°C | | | | | | |
| Input to Output Capacitance | - | C _{I/O} | - | 3 | - | pF |
| Input to Output Isolation | - | V _{I/O} | 3750 | - | - | V _{RMS} |

MECHANICAL DIMENSIONS

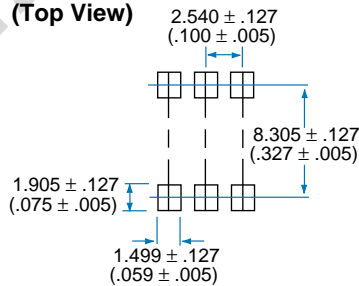
6 Pin DIP



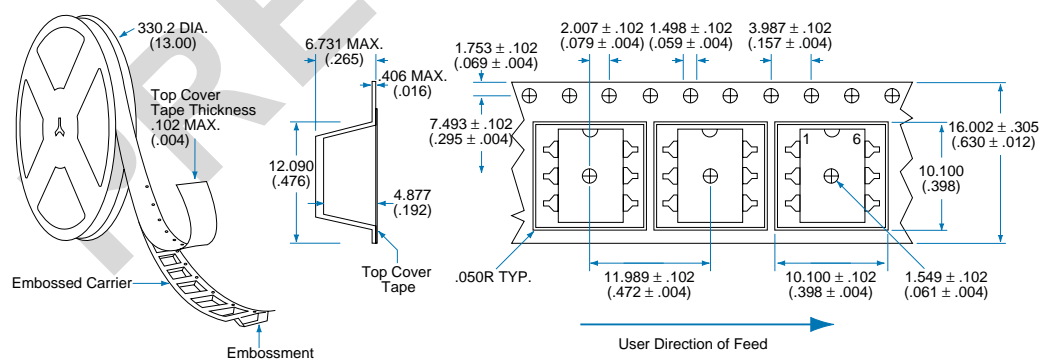
6 Pin DIP Surface Mount ("S" Suffix)



PC Board Pattern (Top View)



Tape and Reel Packaging for 6 Pin Surface Mount Package





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