



查询PLA150供应商

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PLA150

Single Pole OptoMOS® Relay



	PLA150	Units
Load Voltage	250	V
Load Current	250	mA
Max R _{ON}	7	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
- Current Limiting, Surface Mount and Tape & Reel Versions Available

Applications

- Telecommunications
 - Telecom Switching
 - Tip/Ring Circuits
 - Modem Switching (Laptop, Notebook, Pocket Size)
 - Hookswitch
 - Dial Pulsing
 - Ground Start
 - Ringer Injection
- Instrumentation
 - Multiplexers
 - Data Acquisition
 - Electronic Switching
 - I/O Subsystems
 - Meters (Watt-Hour, Water, Gas)
- Medical Equipment-Patient/Equipment Isolation
- Security
- Aerospace
- Industrial Controls

Description

PLA150 is a 250V, 250mA, 7Ω 1-Form-A relay. This performance leader features high peak load current handling capability with a very low on-resistance.

Approvals

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

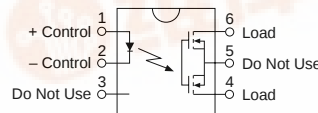
Ordering Information

Part #	Description
PLA150	6 Pin DIP (50/Tube)
PLA150S	6 Pin Surface Mount (50/Tube)

Pin Configuration

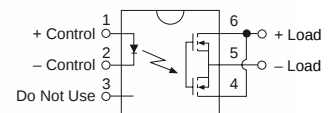
PLA150 Pinout

AC/DC Configuration

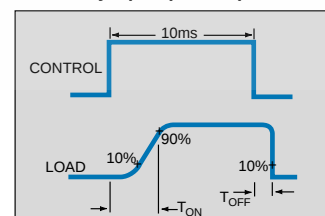


PLA150 Pinout

DC Only Configuration



Switching Characteristics of Normally Open (Form A) Devices



**PLA150****Absolute Maximum Ratings (@ 25° C)**

Parameter	Min	Typ	Max	Units
Input Power Dissipation	-	-	150 ¹	mW
Input Control Current	-	-	50	mA
Peak (10ms)	-	-	1	A
Reverse Input Voltage	-	-	5	V
Total Power Dissipation	-	-	800 ²	mW
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/°C² Derate Linearly 6.67 mW/°C

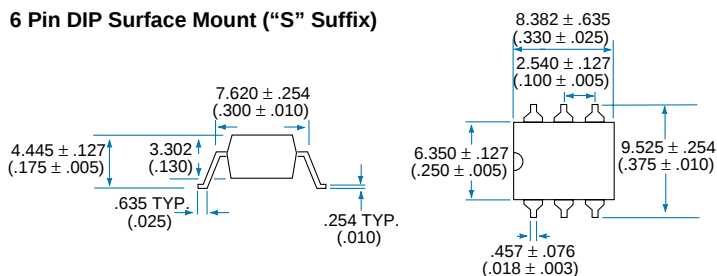
Absolute Maximum Ratings are stress ratings. Stresses in excess of these ratings can cause permanent damage to the device. Functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this data sheet is not implied. Exposure of the device to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

Electrical Characteristics

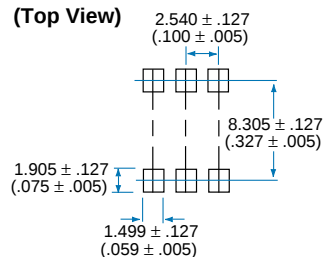
Parameter	Conditions	Symbol	Min	Typ	Max	Units
Output Characteristics @ 25°C						
Load Voltage (Peak)	-	V _L	-	-	250	V
Load Current (Continuous)	-	I _L	-	-	250	mA
AC/DC Configuration	-	I _L	-	-	350	mA
DC Configuration	-	I _L	-	-	500	mA
Peak Load Current	10ms	I _L	-	-	500	mA
On-Resistance	-	R _{ON}	-	-	7	Ω
AC/DC Configuration	I _L =250mA	R _{ON}	-	-	3	Ω
DC Configuration	I _L =350mA	R _{ON}	-	2	3	Ω
Off-State Leakage Current	V _L =250V	I _{LEAK}	-	-	1	μA
Switching Speeds	-	-	-	-	-	-
Turn-On	I _F =5mA, V _L =10V	T _{ON}	-	-	2.5	ms
Turn-Off	I _F =5mA, V _L =10V	T _{OFF}	-	-	0.5	ms
Output Capacitance	50V; f=1MHz	C _{OUT}	-	110	-	pF
Capacitance	-	-	-	-	-	-
Input to Output	-	-	-	3	-	pF
Input Characteristics @ 25°C						
Input Control Current	I _L =250mA	I _F	5	-	50	mA
Input Dropout Current	-	I _F	0.4	0.7	-	mA
Input Voltage Drop	I _F =5mA	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

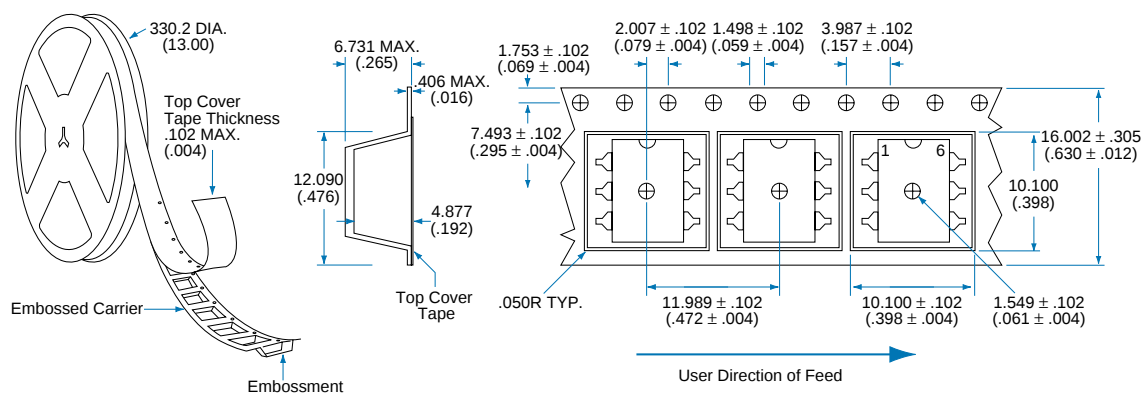
6 Pin DIP Surface Mount ("S" Suffix)



PC Board Pattern (Top View)



Tape and Reel Packaging for 6 Pin Surface Mount Package





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