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LAA127L

DUAL POLE OptoMOS® Relay



| | LAA127L | Units |
|---------------------|---------|-------|
| Load Voltage | 250 | V |
| Load Current | 170 | mA |
| Max R _{ON} | 10 | Ω |

Features

- Small 8 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

LAA127L is a 250V, 170mA, 10Ω 2-Form-A relay. It features enhanced load current capability and a very low on-resistance. Current limiting version is available ("L" suffix, see specification for variations in performance).

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

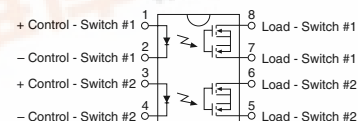
Ordering Information

| Part # | Description |
|------------|---------------------------------|
| LAA127L | 8 Pin DIP (50/Tube) |
| LAA127PL | 8 Pin Flatpack (50/Tube) |
| LAA127PLTR | 8 Pin Flatpack (1000/Reel) |
| LAA127LS | 8 Pin Surface Mount (50/Tube) |
| LAA127LSTR | 8 Pin Surface Mount (1000/Reel) |

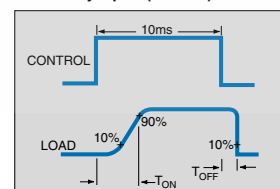
Pin Configuration

LAA127L Pinout

AC/DC Configuration



Switching Characteristics of Normally Open (Form A) Devices





LAA127L

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 |
| Isolation Voltage Input to Output | 3750 | - | - | V _{RMS} |
| Operational Temperature | -40 | - | +85 | °C |
| Storage Temperature | -40 | - | +125 | °C |
| Soldering Temperature DIP Package | - | - | +260 | °C |
| Flatpack/Surface Mount Pkg (10 Seconds Max.) | - | - | +220 | °C |

¹ Derate Linearly 1.33 mw/°C

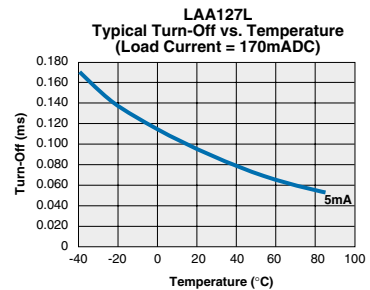
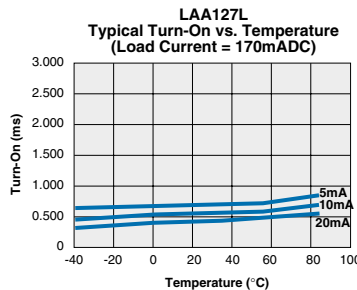
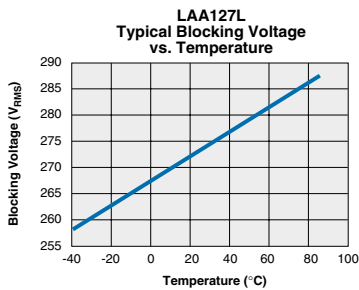
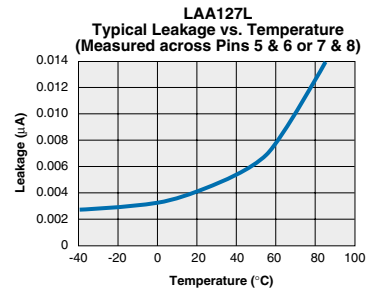
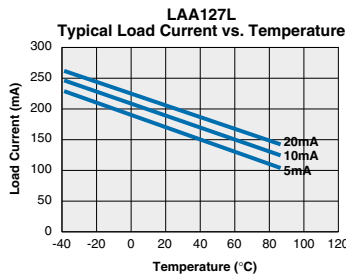
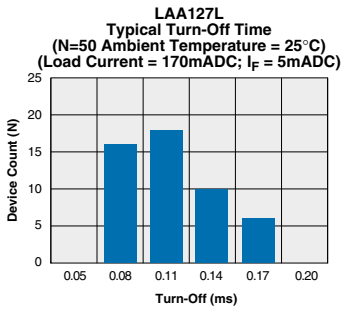
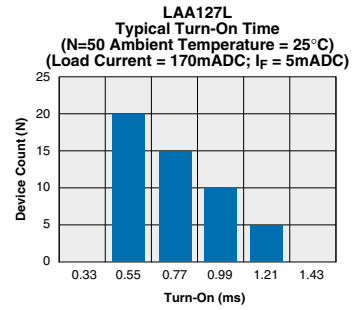
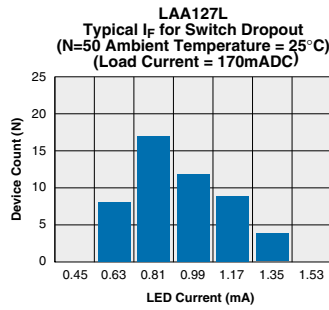
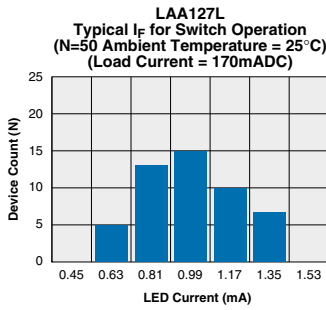
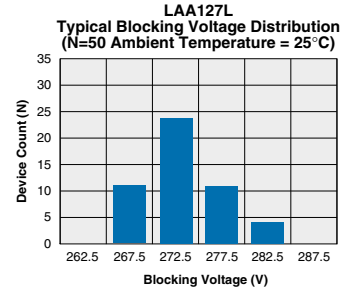
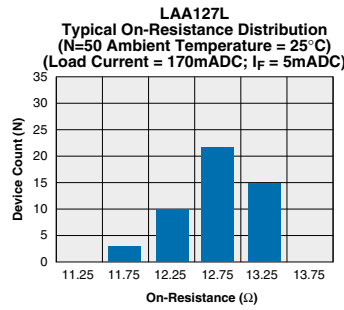
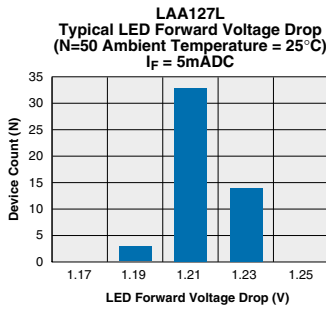
² Derate Linearly 6.67 mw/°C

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

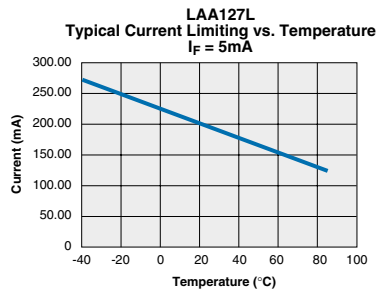
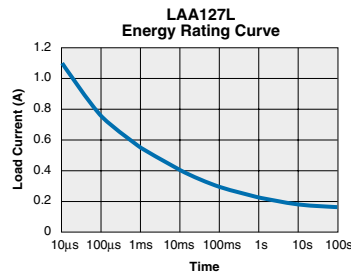
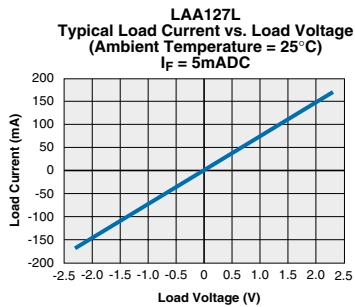
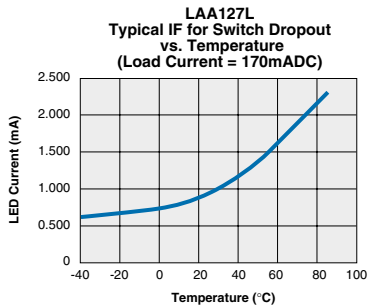
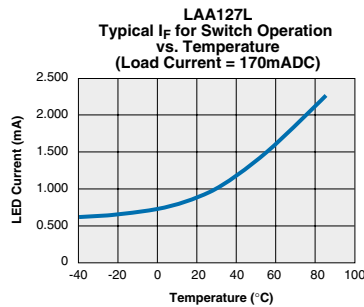
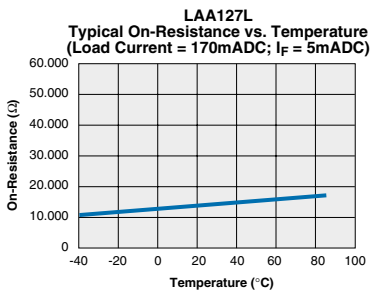
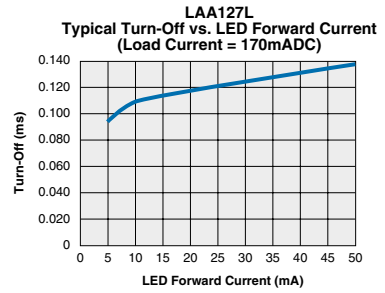
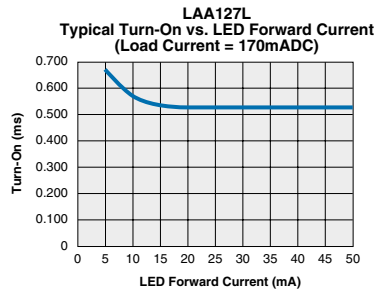
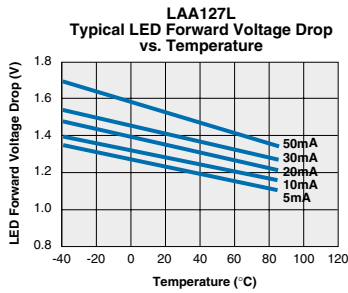
| Parameter | Conditions | Symbol | Min | Typ | Max | Units |
|--|--|-------------------|------|-----|-----|------------------|
| Output Characteristics @ 25°C | | | | | | |
| Load Voltage (Peak) | - | V _L | - | - | 250 | V |
| Load Current (Continuous) AC/DC Configuration | - | I _L | - | - | 170 | mA |
| Peak Load Current | 10ms max | I _{LPK} | - | - | - | mA |
| On-Resistance AC/DC Configuration | I _L =Load Current | R _{ON} | - | 13 | 15 | Ω |
| Off-State Leakage Current | V _L =250V | 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} | - | - | 5 | ms |
| Output Capacitance | 50V; f=1MHz | C _{OUT} | - | 110 | - | pF |
| Load Current Limiting | | I _{CL} | 190 | 235 | 280 | mA |
| Input Characteristics @ 25°C | | | | | | |
| Input Control Current | I _L =Load Current | I _F | 5 | - | 50 | mA |
| Input Dropout Current | - | - | 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 |
| Input to Output Capacitance | - | C _{I/O} | - | 3 | - | pF |
| Input to Output Isolation | - | V _{I/O} | 3750 | - | - | V _{RMS} |

PERFORMANCE DATA*



The Performance data shown in the graphs above is typical of device performance. For guaranteed parameters not indicated in the written specifications, please contact our application department.

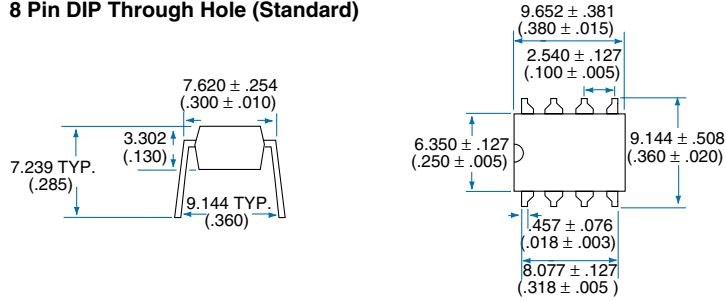
PERFORMANCE DATA*



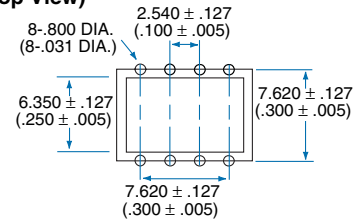
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Mechanical Dimensions

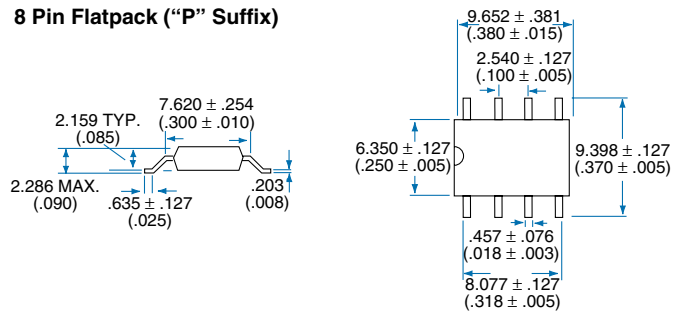
8 Pin DIP Through Hole (Standard)



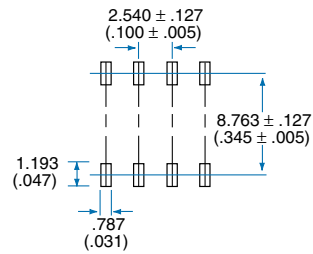
PC Board Pattern (Top View)



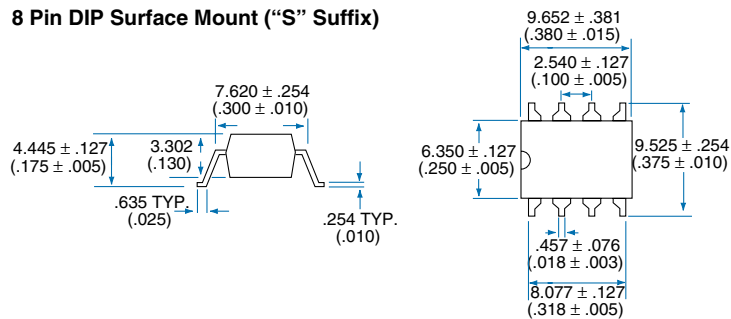
8 Pin Flatpack ("P" Suffix)



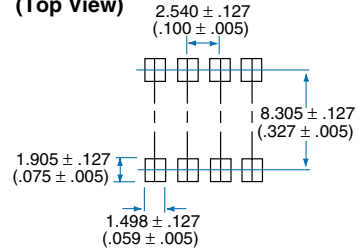
PC Board Pattern (Top View)



8 Pin DIP Surface Mount ("S" Suffix)

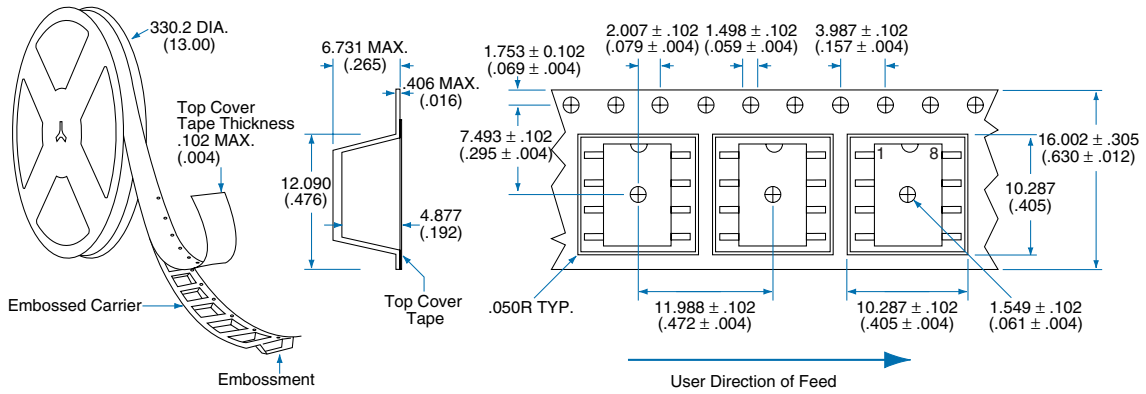


PC Board Pattern (Top View)

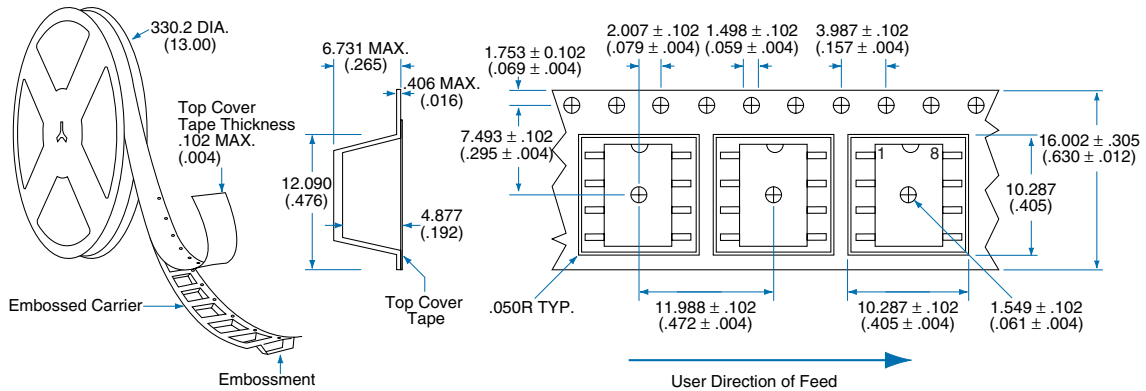


Mechanical Dimensions

Tape and Reel Packaging for 8 Pin Flatpack Package



Tape and Reel Packaging for 8 Pin Flatpack Package





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