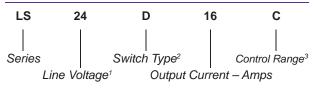


30A to 600 Vac SIP Package DC Control

| Part Number | Description | |
|-------------|--------------|--|
| LS24D16C | 16A, 240 Vac | |
| LS60D22C | 22A, 600 Vac | |
| LS24D27C | 27A, 240 Vac | |
| LS60D30C | 30A, 600 Vac | |
| L300D30C | 50A, 000 Vac | |

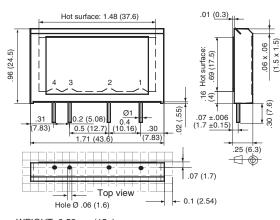
Part Number Explanation



NOTES

- 1) Line Voltage (nominal) 24 = 240 Vac; 60 = 600 Vac
- 2) Switch Type: D = Zero-cross turn-on

3) Control Range: C = 4-14 Vdc



MECHANICAL SPECIFICATION

WEIGHT: 0.53 oz. (15g)

TOLERANCES: ±.007 (±0.2mm)

Figure 1 - LS relays; dimensions in inches (mm) (See Figure 12 for LS with HS1)



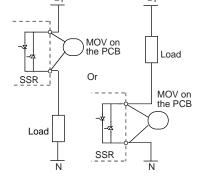


Figure 2 — LS relays



FEATURES/BENEFITS

- Industry standard package
- Designed for external heat-sink attachment
- · Over-sized thyristor ratings
- Direct-copper bonding technology

DESCRIPTION

These solid-state single inline package (SIP) relays are designed for mounting on printed circuit boards. The Series LS relays facilitate heat sinking by providing an interface surface. The relays are designed with 16A, 25A and 50A thyristors. They can switch loads with high starting currents. The nominal switched currents depend on the size of the heat sink and are limited by the cross section of the tracks of the printed circuit (mainly 25A/30A). The relays use a direct-bonded copper substrate for thermal efficiency, thermal stress performance and long-life expectancy.

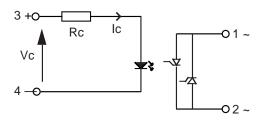
APPLICATIONS

- Motor control Pumps, reversing, integration of relays in terminal boxes
- Lamp control Infrared drying, traffic lights, theater lighting

APPROVALS

All models are UL recognized. UL File Number: E128555.

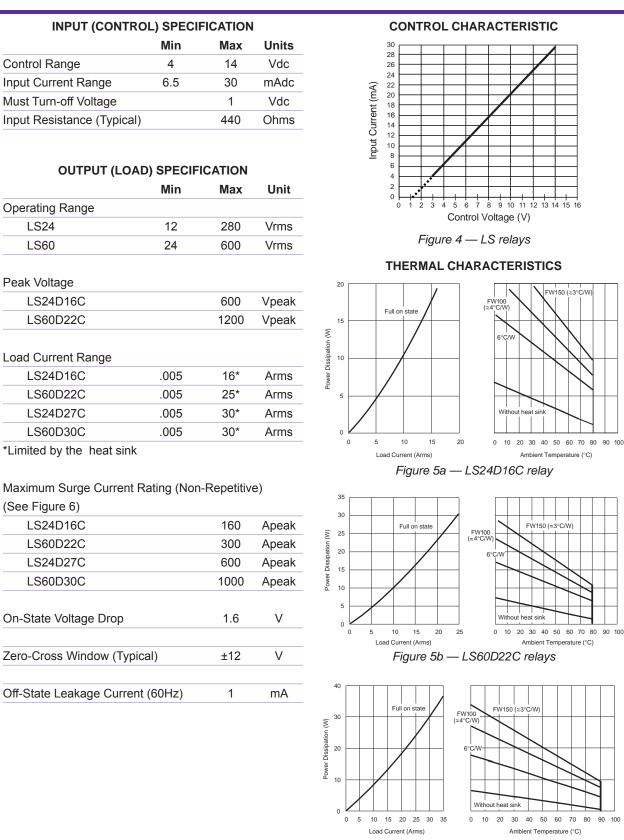
BLOCK DIAGRAM







30A to 600 Vac SIP Package **DC Control**



© 2014 TELEDYNE RELAYS

Figure 5c — LS24D27C, LS60D30C relays

100



Series LS 30A to 600 Vac SIP Package DC Control

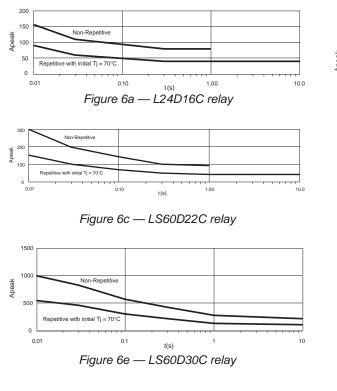
| <i>l</i> in | Max 8.3 | Unit ms |
|-------------|------------|-------------------------------------|
| | 8.3 | ms |
| | | |
| | | |
| | 8.3 | ms |
| | | |
| | 500 | V/µs |
| | | |
| 10 | 440 | Hz |
| | | |
| | 128 | A ² S |
| | 450 | A ² S |
| | 1800 | A ² S |
| | 5000 | A ² S |
| | 10 | 500 10 440 128 450 1800 |

| ENVIRONMENTAL | SPECIFICATION |
|---------------|---------------|
|---------------|---------------|

| | Min | Max | Unit |
|------------------------|------|-----|------|
| Operating Temperature | -40 | 80 | °C |
| Storage Temperature | -40 | 120 | °C |
| Input-Output Isolation | 4000 | | Vrms |
| Output-Case Isolation | 3300 | | Vrms |

NOTES:

- 2. Maximum current based on size of the heat sink and the ambient temperature.
- 3. For 800Hz applications, contact factory.
- 4. For additional/custom options, contact factory.



SURGE CURRENTS

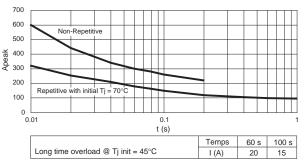


Figure 6d — LS24D27C relays

30A to 600 Vac SIP Package DC Control

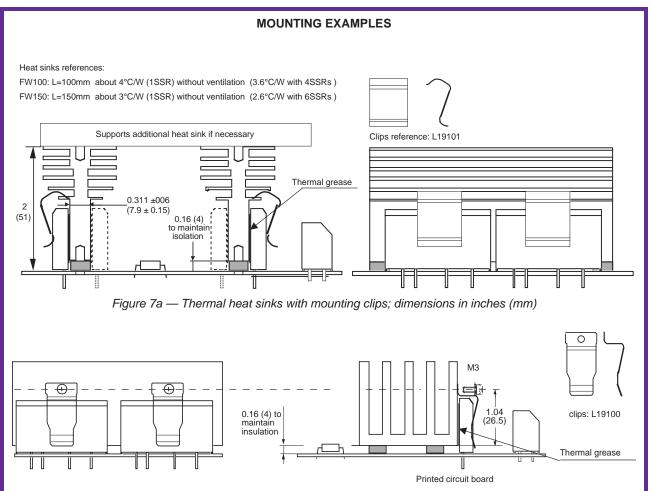


Figure 7b — Clips with screws on standard heat sinks; dimensions in inches (mm)

In each case, allow 0.16 in. (4mm) between the printed circuit board and the heat sink to keep a correct insulation between input to output (0.16 in./4mm insulated washer). To maintain a good contact between the SSR and the heat sink, use thermal grease.

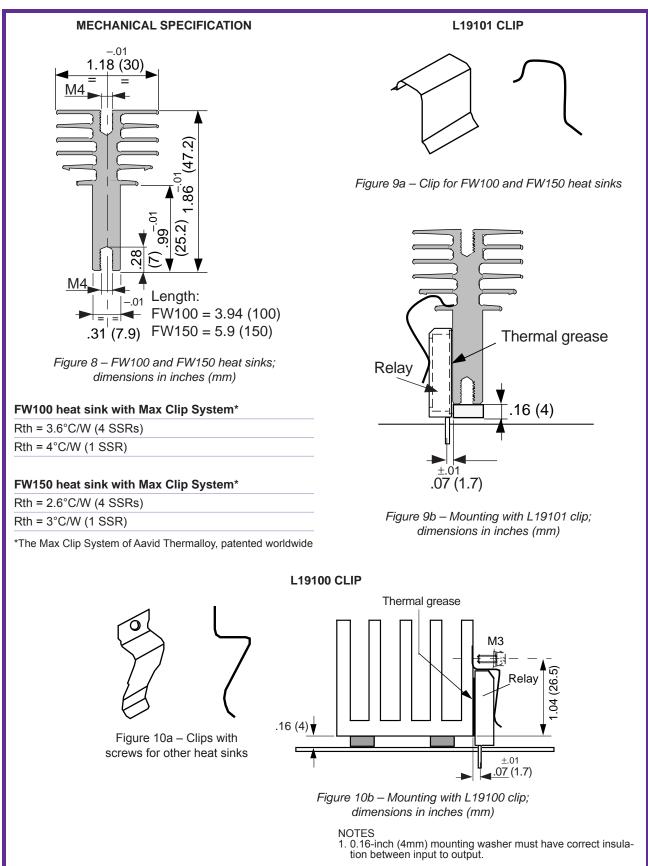
TELEDYNE

Everywhereyoulook

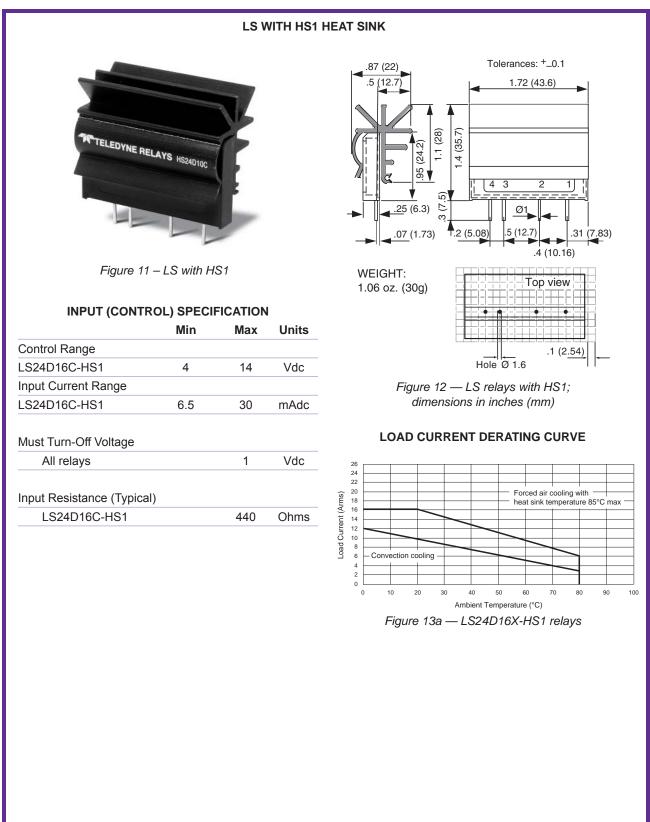
RELAYS



30A to 600 Vac SIP Package DC Control



30A to 600 Vac SIP Package DC Control



TELEDYNE

Everywhere**you**look[™]

RELAYS