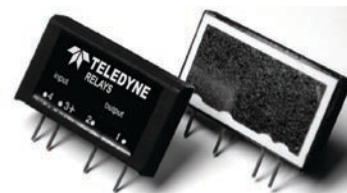


FEATURES/BENEFITS

- Slim compact design
- Heatsinking capabilities
- Integrated voltage protection
- High surge handling capability
- MOSFET output



Part Number Description

LS60DC10C-21 10A, 36 Vdc

LS60DC10F-21 10A, 36 Vdc

Part Number Explanation

LS	60	DC	10	C	-21
Series	Peak Voltage ¹	Switch Type ²	Control Range ³	Control Range ³	Feature ⁴

NOTES

- 1) Peak Voltage (peak): 60 = 60 Vdc
- 2) Switch Type: DC = Random turn-on (DC)
- 3) Control Range: C = 3–10 Vdc; F = 7–30 Vdc
- 4) Feature: -21 = self turn-on voltage protection (transil)

ELECTRICAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

INPUT (CONTROL) SPECIFICATIONS

	Min	Max	Units
Control Range			
LS60DC10C	3	10	Vdc
LS60DC10F	7	30	Vdc

Input Current Range

LS60DC10C	7	32	mA
LS60DC10F	6	29	mA

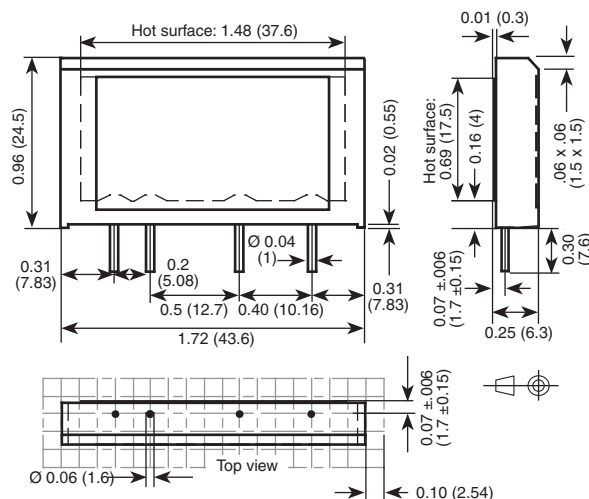
Must Turn-Off Voltage

All relays	1	Vdc
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Input Resistance (Typical)

LS60DC10C	270	Ohms
LS60DC10F	1000	Ohms

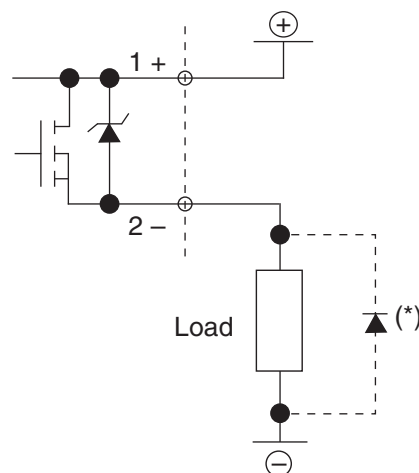
MECHANICAL SPECIFICATION



Tolerances: ±0.007 (±0.2)
Weight: 0.53 oz. (15g)
Dimensions in inches (millimeters)

Figure 1

BLOCK DIAGRAM



*On inductive loads
= Suppressed diode

Figure 2

ELECTRICAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

OUTPUT (LOAD) SPECIFICATIONS

	Min	Max	Units
Operating Range	7	36	Vdc
Peak Voltage		60	Vpeak
Output Current Range	.0001	10	A
Clamping Voltage by Transil		40V@1mA	V
		58.1V@10.3A	V
Maximum Energy for Transil 1ms		600	W
Maximum Power for Transil		0.5	W
Maximum Surge Current Rating (10ms)		100	A
On-State Resistance (Rds-ON)		20	mOhms
On-State Voltage Drop		0.2	V
Off-State Leakage Current		0.1	mA
Turn-On Time		10	µs
Turn-Off Time		150	µs
Operating Frequency Range		**	Hz

** For switching frequencies greater than 1Hz, you may need to reduce the current. For more information, contact our technical department.

GENERAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

ENVIRONMENTAL SPECIFICATIONS

	Min	Max	Units
Operating Temperature	-40	+80	°C
Storage Temperature	-40	+120	°C
Input-Output Isolation	2500		Vrms
Input, Output, Case Isolation	2500		Vrms
Rated Impulse Voltage	2500		V

BLOCK DIAGRAM

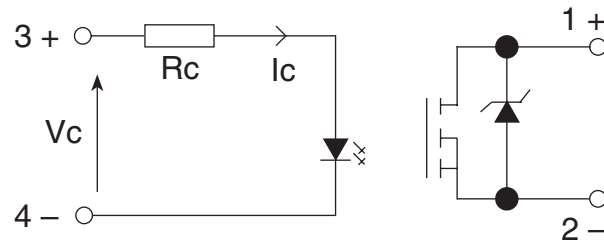


Figure 3

THERMAL CHARACTERISTICS

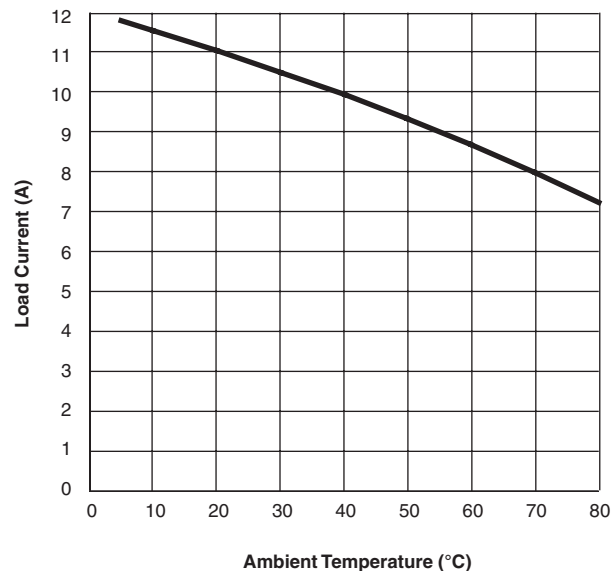


Figure 4

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Teledyne Relays:](#)

[LS60DC10C-21](#) [LS60DC10F-21](#)