

Series LPD60

Dual Relay

250mA, 60Vdc Optically Isolated

A Unit of Teledyne Electronic Technologies

Part Number Description



.25A, 60Vdc dual solid-state relay

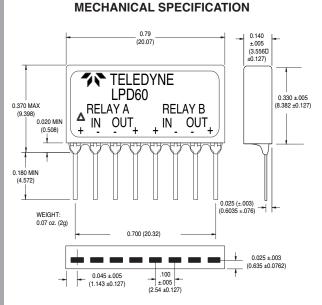
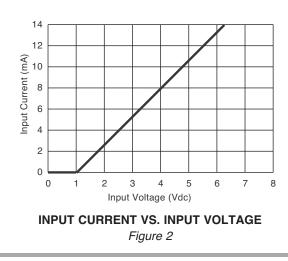


Figure 1 – LPD60 relay; dimensions in inches (mm)

INPUT (CONTROL) SPECIFICATIONS

	Min	Мах	Units
Control Voltage Range	4.0	7.0	Vdc
(See Note 1)			
Input Current @ 5 Vdc (See Figure 2)		12	mA
Must Turn-On Voltage	4		Vdc
Must Turn-Off Voltage		0.8	Vdc
Must Turn-Off Current		50	μAdc
Reverse Voltage	7		Vdc





FEATURES/BENEFITS

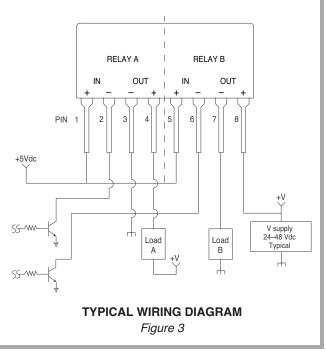
- · Compact SIP plastic package
- · Dual output: two relays in one package
- · Current limiting output
- Low voltage drop

DESCRIPTION

The LPD60 is a dual-output 60Vdc plastic relay. The relay utilizes optical isolation to provide excellent input-to-output isolation. The LPD60 provides a current limiting output to protect itself and associated load circuits from transient current overloads. The compact size of the LPD60 occupies minimum board space. The LPD60 is epoxy encapsulated for added ruggedness.

APPLICATIONS

- Interface applications
- Aircraft flight control systems
- A.T.E
- · 28Vdc aircraft instrumentation systems





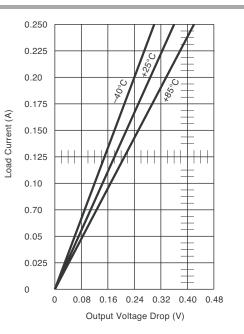
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Series LPD60

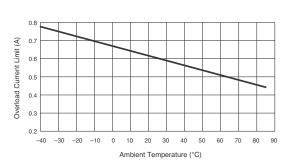
Min	Max	Units
Load Voltage Rating	60	Vdc
Load Current Range (See Figure 6)		Adc
Transient Blocking Voltage	80	Vdc
Output Capacitance@ 25Vdc	200	pF
On-State Voltage Drop (See Figure 4)	0.5	Vdc
On Resistance	2.0	Ohm
Off-State Leakage Current (60 Vdc)	10	μAdc
Turn-On Time	2.5	ms
Turn-Off Time	1	ms
Overload Current Limit (See Figure 5)	0.8	Adc
Overload Time @ 30Vdc (See Figure 7	0.2	sec

ENVIRONMENTAL SPECIFICATION

	Min	Мах	Units	
Operating Temperature	-40	+85	°C	
Storage Temperature	-55	+100	°C	
Junction Temperature		100	°C	
Thermal Resistance				
(Junction to Ambient) each relay		120	°C/W	
Shock		1500	g	
Vibration		100	g	
Dielectric Strength	500		Vac	
Insulation Resistance				
(@500 Vdc)	10 ⁹		Ohm	
Isolation		5	pF	
Resistance to				
Soldering Heat	MIL STD 202, method 210			
Solderability	MIL STD 202, method 208			
Thermal Shock	MIL STD 202, method 107			
Altitude	55,000		ft	
HAST	JDEC Test Method A110			
	130°C 85%	30°C 85% RH, no power		
	applied, 50	hours		

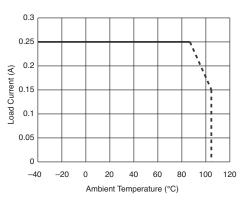


LOAD CURRENT VS. OUTPUT VOLTAGE DROP OVER TEMPERATURE Figure 4



OVERLOAD CURRENT VS. TEMPERATURE

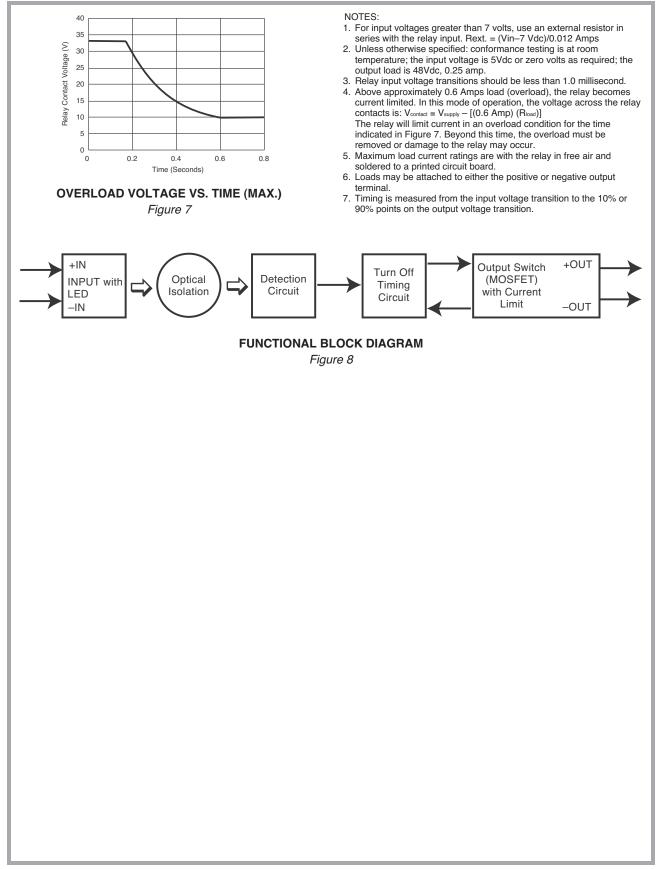
Figure 5



LOAD CURRENT VS. AMBIENT TEMPERATURE Figure 6

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Series LPD60



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