

TD-1435 ON OPERATE-FIXED PERIOD 1 PST



FEATURES

- Small size and weight
- · High-reliability design
- Hermetically sealed
- High transient immunity
- Qualified to MIL-PRF-83726/20
- Reverse Polarity Protection

PRINCIPLE TECHNICAL CHARACTERISTICS

APPLICATION NOTE: 101

in/lead Plate
(Tin Plate) Solder-lug
(Tin Plate) Plug-in PCB mountable

DESCRIPTION

The TD-1435 Time Delay Relays are designed with thick film hybrid microelectronics timing circuits and are packaged in a hermetically sealed military style enclosure. The TD-1435 series are qualified to MIL-PRF-83726/20 and designed to withstand severe environmental conditions encountered in military/aerospace applications. These relays are suited for use in power control, communication circuits and many other applications where power switching and high reliability are required over a wide temperature range.





ELECTRICAL SPECIFICATION

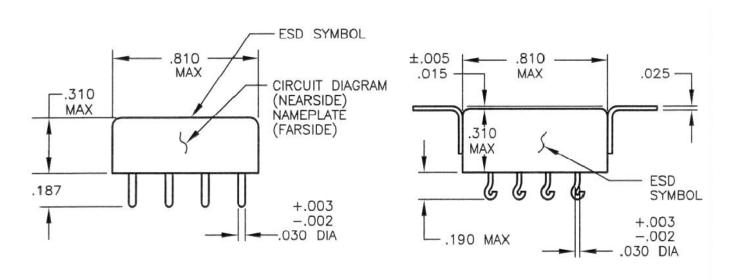
Operate
Fixed Period
0.05 to 500 Seconds
±10% [1]
10 ms, Max [5]
18-32 Vdc
5 mA, Max @ +25° C
+80 Volts Max
-600 Volts Max
None
Class 1D [3]
1 Millisecond [2]
SPST
250 mA
2 Vdc
1,000 Vrms [4]
350 Vrms
1,000 M Ω [4]

GENERAL CHARACTERISTICS

Ambient Temperatures Range:		
a. Operation	-55 to +125° C	
b. Non-Operating	-55 to +125° C	
Vibration: a. Sinusoidal		
10-80 Hz	0.06" DA	
80-3000 Hz	30 G	
b. Random: 50-2000 Hz, MIL-STD-810	0.4 G ² /Hz	
Shock, 0.5 MS, 1/2 Sine, 3 Axis	1,100 G	
Acceleration, in any Axis	100 G	
Life at Rated Resistive Load; Minimum	1,000,000 operations	



MECHANICAL SPECIFICATIONS



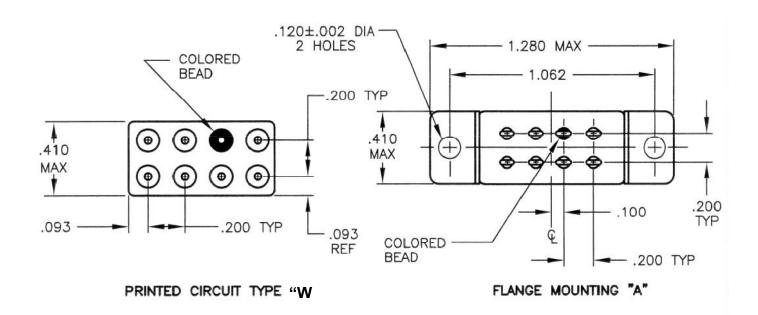
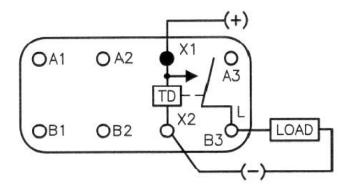


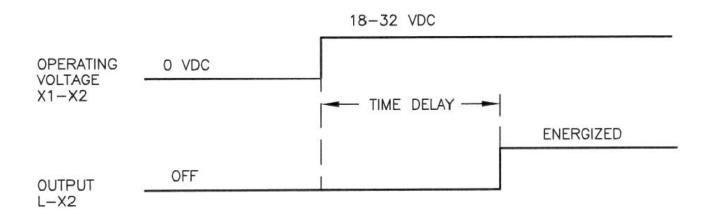
FIGURE 1. Outline dimensions and configuration of Relay



DIAGRAMS



SCHEMATIC DIAGRAM



TIMING DIAGRAM



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NUMBERING SYSTEM

- 1. Model Number or Basic "MIL-PRF" Series number.
- 2. Military "Slash" number.
- 3. Timing Range, Fixed: 50 milliseconds to 500 seconds. (See Note 6)
- 4. Mounting style.

W = Printed circuit mountable.

A = Flange mount with solder hook terminal.

NOTES

- 1. The accuracy specification applies for any combination of operating temperature and voltage.
- 2. The accuracy will not be affected by power interruptions up to 1 millisecond, spaced at least 10 milliseconds apart. Transient and power loss specifications are based on a maximum duty cycle of 1/50.
- 3. EMI test limits will not be exceeded during the timing interval or when continuously energized under steady state conditions, per paragraph 3.26, MIL-PRF-83726.
- 4. Terminals X1, X2 and L must be connected together during the test. Dielectric withstanding voltage and insulation resistance are measured at sea level between all mutually insulated terminals and between all terminals and case.
- Recycle time is defined as the maximum time power must be removed from terminal X1 to assure that a new cycle can be completed within the specified timing tolerance.
- A four digit number defines the time delay in seconds (or milliseconds). The first three digits are significant figures, used to define the specific time delay. The fourth digit represents the number of zeros to follow the first three digits.

Examples:

- 1001 = 1 second (1,000 milliseconds)
- 2502 = 25 seconds (25,000 milliseconds)
- 5000 = 0.5 seconds (500 milliseconds)

For any inquiries, please contact your local sales representative: leachcorp.com