AC SOLID STATE RELAY

TELEDYNE RELAYS

Part Number*	Relay Description
CA00HD	1A, 250 Vrms, AC Solid State Relay
	with dual in-line terminals.
SCA00HD	1A, 250 Vrms, AC Solid State Relay
	with gull wing surface mount terminals.

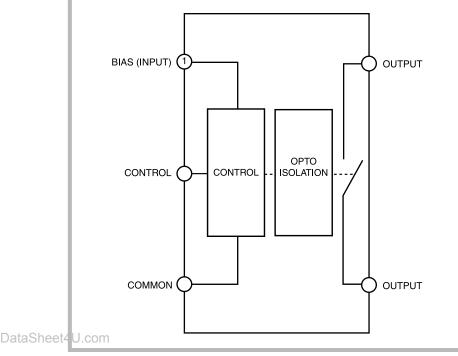
The Y suffix denotes parameters tested to MIL-PRF-28750 test methods. The W suffix denotes parameters tested to Teledyne specifications.

ELECTRICAL SPECIFICATIONS

(-55°C TO +125°C UNLESS OTHERWISE SPECIFIED) **INPUT (CONTROL) CHARACTERISTICS**

2 Terminal Configuration (See Fig. 1)	Min	Max	Units
Input Voltage	3.8	32	Vdc
Input Current (See Figure 1)			
V _{IN} =5 Vdc	13	15	mA
V _{IN} =32 Vdc	13	18	mA
Turn-Off Voltage (Guaranteed Off)		1.5	Vdc
Turn-On Voltage (Guaranteed On)	3.8		Vdc
Reverse Voltage Protection		F32aSheVdćU.co	

BLOCK DIAGRAM





FEATURES/BENEFITS

- Optical Isolation-Isolates control elements from load transients.
- Low Zero Cross Window-Minimizes switching transients and lowers EMI. Ideal as an SCR or TRIAC driver.
- Fully Floating Output-Eliminates ground potential loops
- Meets MIL-STD-704 Requirements for **Relay Outputs-**Allows relay to be used in avionic systems without external transient protection.
- Buffered Control-Relay can be controlled directly from TTL or CMOS logic circuits.
- · Low Profile Ceramic DIP Package-Allows high density packaging for through-hole and surface mount applications.

DESCRIPTION

The CA series is designed for printed circuit board mounting in AC power switching applications. The relay is rated for 1A at 250 Vrms from 40 to 440 Hz for resistive and reactive loads with power factors as low as 0.2. Inverse parallel SCRs are configured for zero voltage turn on. The patented circuit design assures the lowest possible EMI by reducing commutation spikes. Optical isolation allows a floating output with 1200 Vac isolation between the control (input) and load (output). This allows low level logic circuits to safely control AC loads. The low profile ceramic DIP package is hermetically sealed to withstand severe environmental conditions encountered in military and aerospace applications. This relay is available with conventional leads for through-hole PCB mounting or with gull wing leads for surface mount applications.

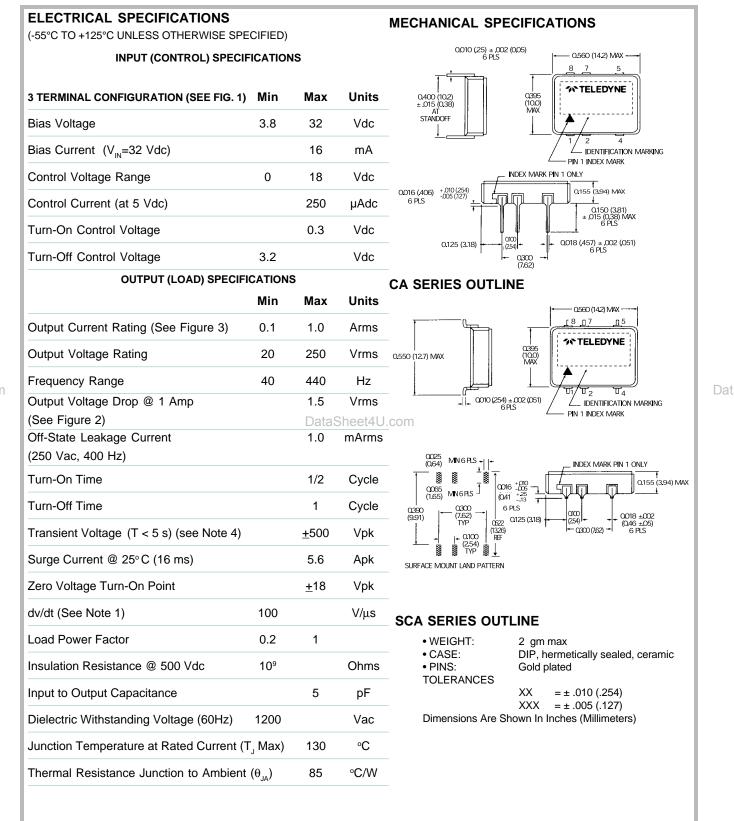
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Series CA 1 A. 250 VRMS **OPTICALLY ISOLATED**

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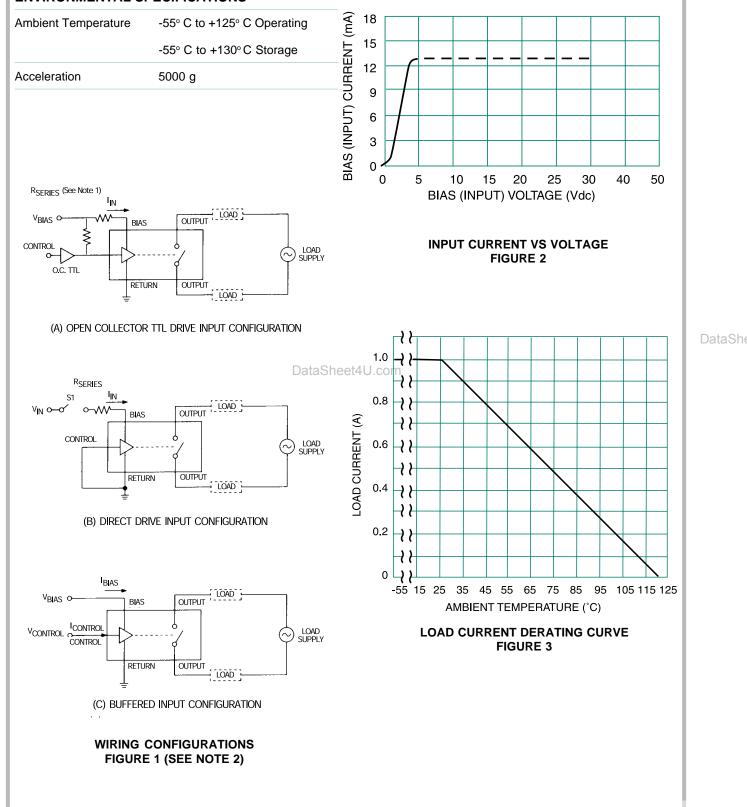
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CA

ENVIRONMENTAL SPECIFICATIONS



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