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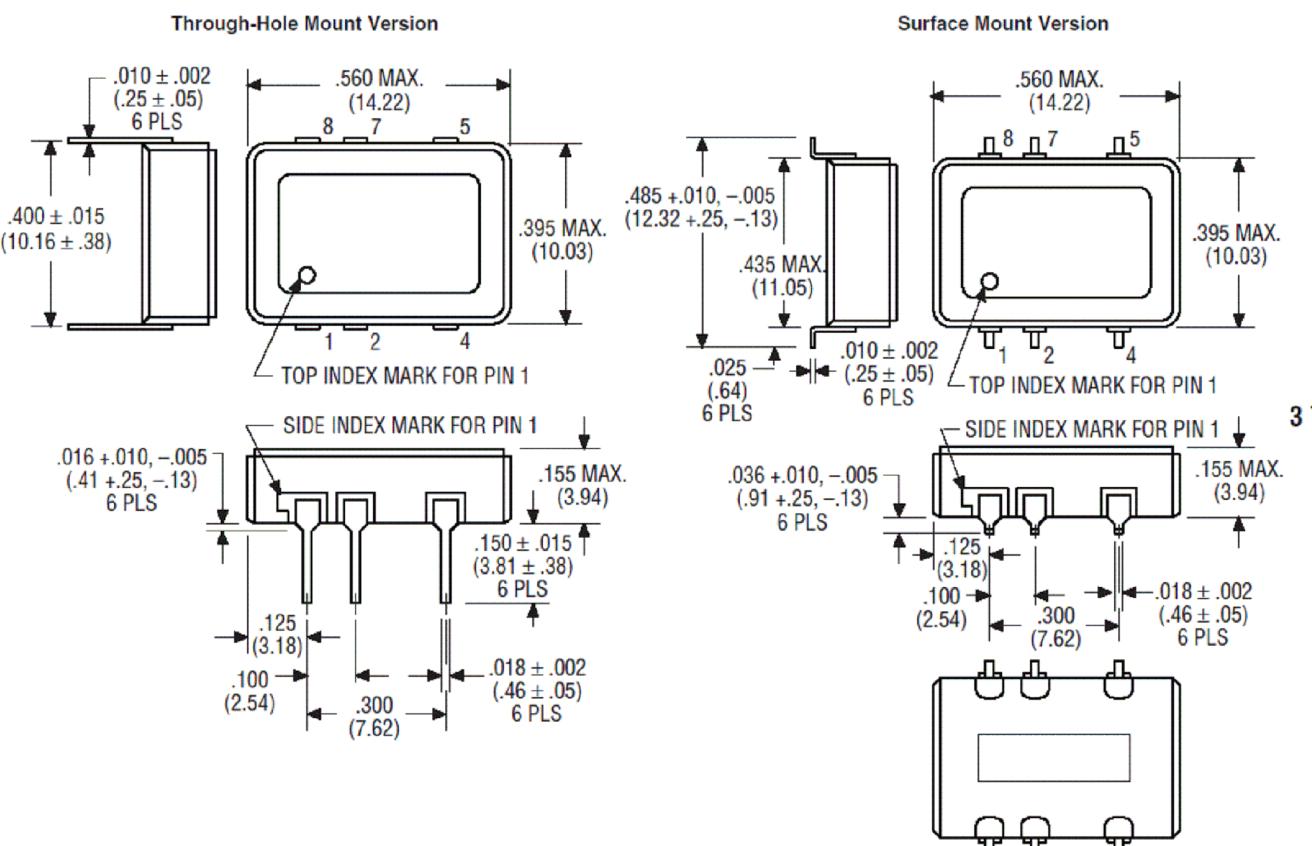
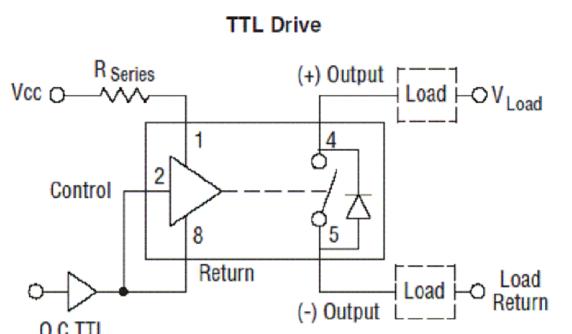
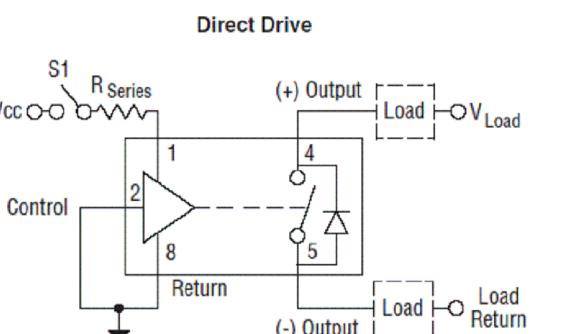
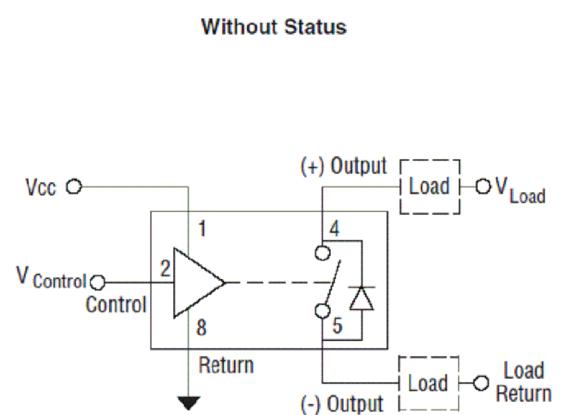
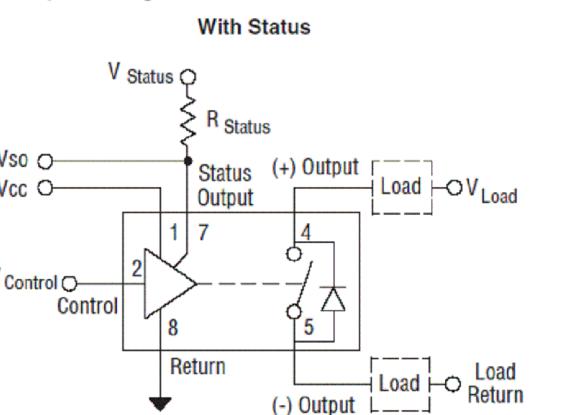
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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

Figure 7 - Outline Dimensions**2 Terminal Input Configuration****3 Terminal Input Configuration****Notes**

1. 2 terminal input configuration is compatible with CMOS or open collector TTL (with pull-up resistor). For Vcc levels above 6Vdc, a series limiting resistor is required. See Fig. 2 for resistor value. Use standard resistor value equal to or less than value form the curve.
2. Vcc = 5Vdc for all tests unless otherwise specified.
3. All DS13 Series relays may drive loads connected to either positive or negative referenced power supply lines. Reversing polarity of output may cause permanent damage. Inductive loads must be diode suppressed.
4. Transient blocking voltage & electrical system spike tests are performed per MIL-STD-704 (28Vdc systems).
5. To determine the maximum on-resistance at any given junction temperature, multiply on-resistance at 25°C by normalized on-resistance factor from curve (Fig. 4).
6. Overload testing per MIL-R-28750 is constrained to the limits imposed by the short circuit protection requirements of this specification and DSCC drawing 90091. Load circuit series inductance for "load shorted" mode of operation to be limited to 50mH max. Maximum repetition rate into a shorted load should not exceed 10 Hz. To calculate maximum on-resistance at any temperature, use the following equation: $R(on) = R(on) @ 25^{\circ}\text{C} \times NF$ (without short circuit protection) and $R(on) = 0.2 \times NF + .21$ (with short circuit protection) where NF = normalized on-resistance factor from Fig. 4.
7. Proper operation of the status feedback requires a status pull-up resistor. Select the status resistor such that it limits status output current to 2mA: $R_{status} = V_{status} - 0.3V / 2mA$.

ALL DIMENSIONS ARE IN INCHES(MM)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN VM CHK RV APVD DH	12SEP2019 12SEP2019 12SEP2019 — PRODUCT SPEC	NAME DS13 SOLID STATE RELAY — —
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APPLICATION SPEC —		
	0 PLC $\pm -$ 1 PLC $\pm -$ 2 PLC $\pm -$ 3 PLC $\pm -$ 4 PLC ANGLES $\pm -$	WEIGHT —	SIZE A3	DRAWING NO C-DS13-SERIES
MATERIAL —	FINISH —	CUSTOMER DRAWING		
SCALE NTS		RESTRICED TO —	SHET 2 OF 2	REV A