

## TELEDYNE RELAYS

# SERENDIP® Commercial/Industrial DIP Solid State Relays



Subminiature solid state relays in standard TO-116 DIP packages. Featuring all solid state circuitry with hybrid microcircuit construction, and

high input/output isolation (up to 2500 volts/10<sup>9</sup> ohms). Six models available providing choice of output: bipolar (ac or dc), ac (triac), and dc (transistor). Bipolar (640/644 series) and dc (643 series) are direct pin-for-pin replacements for standard DIP reed relays. AC versions (641 series) are UL Recognized — File #E55197.

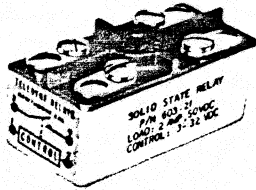
PART NUMBER	INPUT DATA		OUTPUT (LOAD) RATINGS			VOLTAGE
	VOLTAGE (VDC)	MAX. CURRENT (MADC @ 5V)	AC/DC	CURRENT		
				@ 10V INPUT	@ 5V INPUT	
640-1	3.8-10	22	BIPOLAR (AC or DC)	80 MA	40 MA	± 50 V <sub>PEAK</sub>
641-1	3.8-10	15	AC	0.5 A (Note 1)	0.5 A	140 V <sub>RMS</sub>
641-2	3.8-10	15	AC	0.5 A (Note 1)	0.5 A	280 V <sub>RMS</sub>
643-1	3.8-10	15	DC	400 MA	200 MA	60 V <sub>DC</sub>
643-2	3.8-10	15	DC	100 MA	50 MA	250 V <sub>DC</sub>
644-1	3.8-6	18	BIPOLAR (AC or DC) (Note 2)	5 MA	5 MA	± 5 V <sub>PEAK</sub>

**Notes:**

1. 1 amp with heat sink. Standard DIP heat sink, Model 640HS, available as accessory.
2. Features low offset voltage (100 microvolts typical).

## Solid State DC Relay

### 603 Series - Optically Isolated



Solid state DC relays featuring LED optical isolation. SPST, normally open. Available in 2 and 5 amp steady state current ratings, up to 50 vdc. Sensitive 3-32 vdc control input is compatible with both low and high level logic systems. As an added option, controlled rise and fall time is offered to

limit in-rush currents for lamp loads and switching transients for inductive loads. Package configuration provides either screw or quick disconnect terminals for chassis or panel mounting or solder pins for direct PC board mounting.

Size: 1" (25.4 mm) x 2" (50.8 mm) x .9" (22.9 mm).

PART NUMBER	OUTPUT CURRENT RATING (AMPS)	
603-1	2	
603-2	5	
603-21	2	Controlled Rise & Fall Time
603-22	5	

Basic part number provides screw terminals. Add suffix "P" for PC board pins, "Q" for quick disconnect terminals.

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3155 West El Segundo Boulevard, Hawthorne, California 90250 • Telephone (213) 973-4545