



Electronic Design & Research
<http://www.vsholding.com>

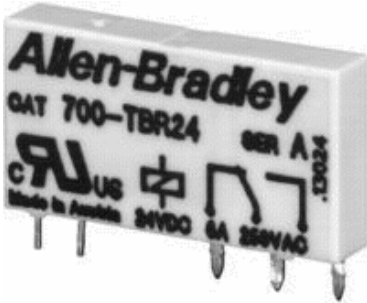
Technology for people's ideas

600VAC/1A SPST Relay

D8L501 is a miniature Solid State Relay

Designed to replace an electromechanical relay made by Allen-Bradley

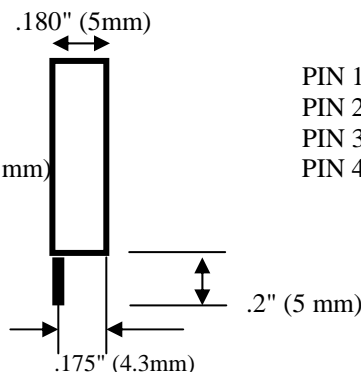
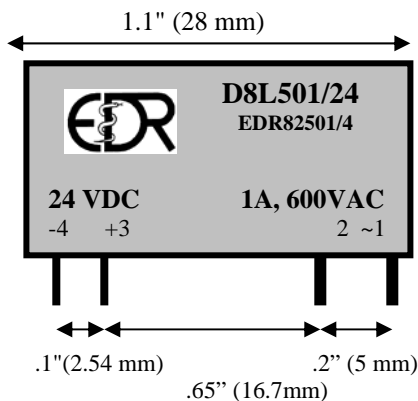
- Features:** Utilizes only .2 sq. in. of PCB area and only 0.575" tall
 1A continuously and 600VAC blocking voltage
 On-State 4.0 A rms, full cycle sine wave
 40A Peak Non-repetitive Surge Current (One Full Cycle)
 Available, 5VDC, 12VDC and 24VDC control
 Please specify input control voltage and power supply



Electro-magnetic Relay by Allen Bradley

Solid State Relay by EDR Inc.

Model NO.	D8L501/5	D8L501/12	D1L501/24
Input Specifications, for p/n	EDR82501/2	EDR82501/3	EDR82501/5
Control Voltage Range (VDC)	5	12	24
Control Current Range (mA) max		5	
Must Turn ON Voltage	2	8	18
Minimum Drop Out Voltage	1.75	6	14
Maximum Reverse Control Voltage(VDC)		80	
Output Circuit			
Operating Voltage Range (47 - 63 Hz)		24-600 V rms	
Maximum Current - free air, continues		1A rms	
On-State RMS Current (full cycle)		4A rms	
Minimum Current		.02Arms	
Maximum Surge Current, (16.6 mS)		40 A	
Minimum Peak Blocking Voltage (Volts)		600	
Maximum "ON-state (Volts)		1.3	
Holding current (typical)	minimum 1.5mA		maximum 10 mA
Typical Power Dissipation (watts)		1W	
Power Factor (Min,) with Max. Load		0.5	
Maximum Turn-ON time		1/2 cycle	
Maximum Turn-OFF time		1/2 cycle	
Ambient Operating Temperature Range		-30 to 85 C°	
Ambient Storage Temperature Range		-30 to 125 C°	
Input/Output Dielectric Strength		2500 Vrms	



- PIN 1: AC LOAD
- PIN 2: AC LOAD
- PIN 3: +DC CONTROL
- PIN 4: -DC CONTROL

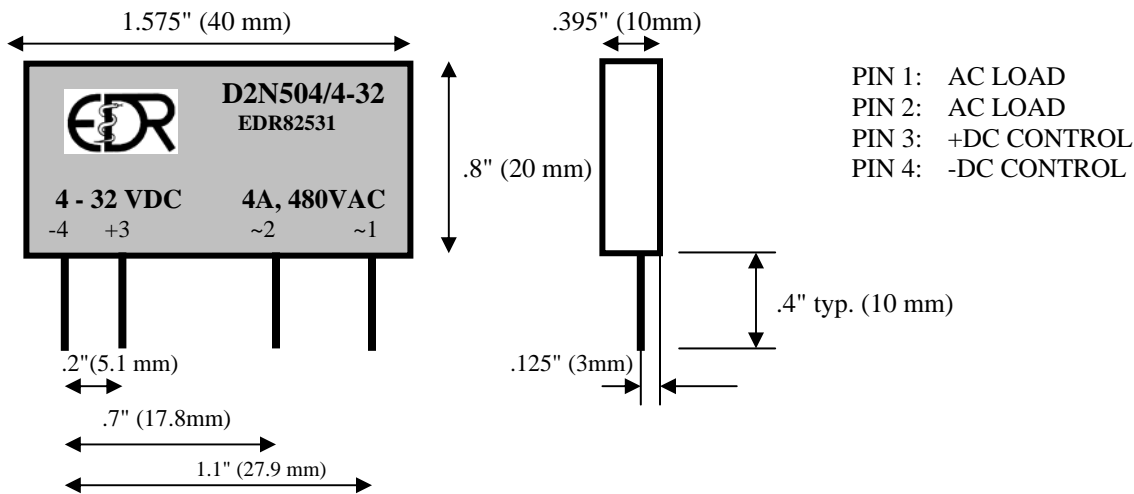


Electronic Design & Research Inc.
/ VS Holding LLC

Series D2N -- Low control Voltage Solid State Relays

2-6.5 Amps * 480 VAC * AC Output SIP, TRIAC Output
Direct interfacing to Low Voltage, Low Power modern Logic Chips
Zero Voltage Switching, Pin-outs are compatible with D2W, CX, CMX and OAC
type of I/O modules

Model NO.	D2N502*	D2N504*	D2N506*
Input Specifications	EDR82530	EDR82531	EDR82532
Control Voltage Range (VDC)		4-32	
Control Current Range (mA)		2-8	
Typical Input Current @ 5VDC		2.1 mA	
Nominal Input Impedance		Dynamic between 1K till 7K	
Must Turn ON Voltage		2.00 VDC	
Minimum Drop Out Voltage		1.75 VDC	
Maximum Reverse Control Voltage(VDC)		80	
Output Circuit			
Operating Voltage Range (47 - 63 Hz)		24-600 Vrms	
Maximum Current - free air, continues	2Arms	4Arms	6.5Arms
On-State RMS Current (full cycle)	8Arms	25Arms	40Arms
Minimum Current		.02Arms	
Maximum Surge Current, (16.6 mS)	80A	250 A	350A
Minimum Peak Blocking Voltage (Volts)		600	
Maximum "ON-state (Volts)	2	1.85	1.4
Holding current (typical)	10mA	10mA	30 mA
Typical Power Dissipation (watts)		7	
Power Factor (Min,) with Max. Load		0.5	
Maximum Turn-ON time		1/2 cycle	
Maximum Turn-OFF time		1/2 cycle	
Ambient Operating Temperature Range		-30 to 85 C°	
Ambient Storage Temperature Range		-30 to 125 C°	
Input/Output Dielectric Strength		4000 Vrms	



All Dimensions are in inches (millimeters).

All terminals (pins) are .040" (1 mm) diameter.

Weight: (typical) .35 oz. (9.9 g)

Encapsulation: Thermally Conductive Epoxy

* for INTERNAL SNUBBER add "E" at the end of parts number, for an example: D2N504E

For recommended application and more information contact: **Electronic Design & Research Inc.**, Product Division,
7331 Intermodal Drive, Louisville, KY 40258, (800)-336.1.EDR * (502)933-8660 * fax (502)933-3422
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