

EL Series



- Ratings of 5A and 10A @ 3-100 VDC
- UL Recognized, CE and RoHS Compliant
- 5, 12 and 24VDC control
- Mosfet Output

PRODUCT SELECTION

Control Voltage	5A	10A
4-8 VDC	EL100D5-05	EL100D10-05
10-14 VDC	EL100D5-12	EL100D10-12
21-27 VDC	EL100D5-24	EL100D10-24

OUTPUT SPECIFICATIONS (1)(3)

Description	5A	10A
Operating Voltage Range [VDC]	3-100	3-100
Maximum Load Current [Adc] (2)	5	10
Minimum Load Current [mAdc]	150	150
Maximum Surge Current Non-Repetitive (10ms) [A]	80	100
Maximum Off-State Leakage Current @ Rated Voltage [μ Adc]	100	100
Maximum On-State Resistance @ Rated Current (Rds-on)	0.04 Ohm	0.01 Ohm
Maximum On-State Voltage Drop @ Rated Current	0.2V	0.1V

INPUT SPECIFICATIONS (1)

Description	EL100Dxx-05	EL100Dxx-12	EL100Dxx-24
Control Voltage Range	4-8 VDC	10-14 VDC	21-27 VDC
Minimum Turn-On Voltage	4.0 VDC	10 VDC	21 VDC
Minimum Turn-Off Voltage	0.5 VDC	1.0 VDC	2 VDC
Typical Input Current @ nominal turn-on voltage	13.3 mA	11.7 mA	11.5 mA
Nominal Input Impedance [Ohms]	300	940	2K
Maximum Turn-On Time [msec]	1	1	1
Maximum Turn-Off Time [μ sec]	300	300	300

GENERAL SPECIFICATIONS

Description	Parameters
Dielectric Strength, Input to Output	2500 Vrms
Dielectric Strength, Output to Baseplate	2500 Vrms
Ambient Operating Temperature Range	-30 to 80 °C
Ambient Storage Temperature Range	-30 to 125 °C
Weight (typical)	0.5 oz (14.4g)
Terminals	3/16" input, 1/4" output QC

GENERAL NOTES

- 1) All parameters at 25°C unless otherwise specified.
- 2) When mounted to the proper size heat sink (see derating curves)
- 3) Inductive loads should be diode suppressed to prevent damage to the relay.