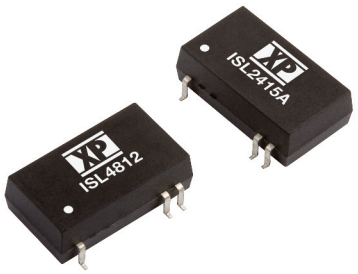
1.5 Watts
ISL Series



- Single & Dual Regulated Outputs
- 4:1 Input Range
- SMD Package
- Industry Standard Pinout
- 1500 VDC Isolation
- Short Circuit Protection
- 3 Year Warranty

Specification

Input

Input Voltage Range	• 24 V (9-36 VDC) 48 V (18-72 VDC)
Input Reverse Voltage Protection	• None
Input Surge	• 24 V: 40 VDC for 100 ms 48 V: 80 VDC for 100 ms

Output

Output Voltage	• See table
Minimum Load	• 10%[1]
Line Regulation	• ±0.2% typical
Load Regulation	• ±0.5% typical
Setpoint Accuracy	• ±1%/±3% typical, positive/negative output
Ripple & Noise	• 100 mV pk-pk 20 MHz bandwidth
Temperature Coefficient	• 0.03%/℃
Short Circuit Protection	• Continuous, automatic recovery

General

Efficiency	• See table
Isolation Voltage	• 1500 VDC
Isolation Resistance	• 10^9 Ω
Isolation Capacitance	• 1000 pF typical
Switching Frequency	• 550 kHz typical at nominal input, full load
MTBF	• >1 MHrs to MIL-HDBK-217F at 25 ° C, GB

Environmental

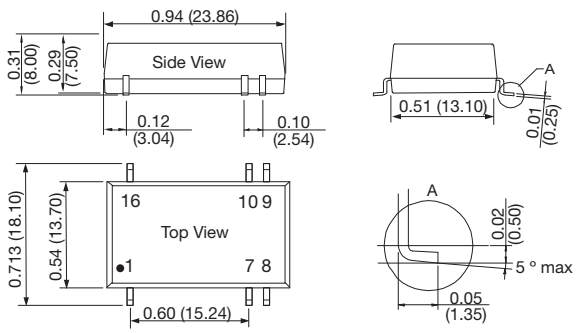
Operating Temperature	• -40 ℃ to +85 ℃, derate from 100% load at 70 ℃ to 0% load at 100 ℃
Storage Temperature	• -55 ℃ to +125 ℃
Case Temperature	• 100 ℃ max
Cooling	• Convection-cooled
Lead Temperature	• 240 ° C, 0.06 in (1.5 mm) from case, 10 s

Notes

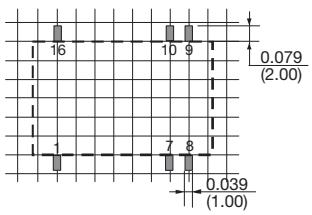
1. Operation at no load will not damage unit but it may not meet all specifications.

Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number
24 VDC	3.3 V	455 mA	72%	ISL2403A
	5.0 V	300 mA	76%	ISL2405A
	9.0 V	167 mA	78%	ISL2409A
	12.0 V	125 mA	79%	ISL2412A
	15.0 V	100 mA	80%	ISL2415A
	±5.0 V	±150 mA	74%	ISL2405
	±12.0 V	±63 mA	78%	ISL2412
	±15.0 V	±50 mA	80%	ISL2415
48 VDC	5.0 V	300 mA	76%	ISL4805A
	12.0 V	125 mA	79%	ISL4812A
	15.0 V	100 mA	80%	ISL4815A
	±5.0 V	±150 mA	74%	ISL4805
	±12.0 V	±63 mA	78%	ISL4812
	±15.0 V	±50 mA	80%	ISL4815

Mechanical Details



Recommended footprint
Top view grid: 0.1 x 0.1 in (2.54 x 2.54 mm)



Pin	Single	Dual
1	-Vin	-Vin
7	N.C.	N.C.
8	N.C.	0 V
9	+Vo	+Vo
10	0 V	-Vo
16	+Vin	+Vin

N.C. Not connected

Notes

1. All dimensions in inches (mm)
2. Tolerance: ±0.010 (±0.25)
3. Weight: 0.011 lbs (5.2 g)
4. Pin tolerance: ±0.004 (±0.10 mm)