1 Watt

IC Series

- Single Output

- Ultra Slim DIP Package

- Industry Standard Pinout

- 1500 VDC Isolation Standard

- MTBF >3.5 MHrs

- –40 °C to +85 °C Operation

- 3 Year Warranty

Specification

Input

| Input Voltage Range | • Nominal ±10% |
| Input Reverse Voltage Protection | • None |

Output

Output Voltage	• See table
Minimum Load	• 10%
Line Regulation	• 1.2%/1% Δ Vin
Load Regulation	• 10% to 100% load change, 5 Vout: 12.8% typ, 15% max, 12 Vout: 6.8% typ, 15% max, 15 Vout: 6.8% typ, 15% max
Setpoint Accuracy	• 100-110% of nominal at 10% load
Ripple & Noise	• 75 mV pk-pk 20 MHz bandwidth
Temperature Coefficient	• 0.03%/°C
Short Circuit Protection	• Continuous, auto recovery

General

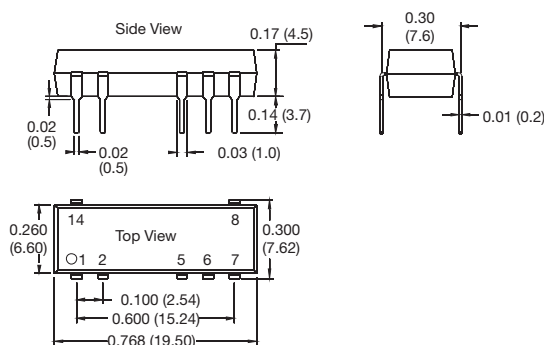| Efficiency | • See table |
Isolation Voltage	• 1500 VDC minimum, 3000 VDC optional[1], tested for 1 minute
Isolation Resistance	• $10^9 \, \Omega$
Isolation Capacitance	• 25 pF typical
Switching Frequency	• 100 kHz typical at nominal input, full load
MTBF	• >3.5 MHrs to MIL-HDBK-217F at 25 °C, GB

Environmental

Operating Temperature	• -40 °C to +85 °C
Storage Temperature	• -55 °C to +125 °C
Case Temperature	• 105 °C max
Cooling	• Convection-cooled
Lead Temperature	• 250 °C, 0.06 in (1.5 mm) from case, 10 s

Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number
5 VDC	5.0 V	200 mA	74%	IC0505DA[1]
	12.0 V	83 mA	77%	IC0512DA
	15.0 V	67 mA	76%	IC0515DA
12 VDC	5.0 V	200 mA	73%	IC1205DA

Notes

1. IC0505DA available with 3000 VDC isolation, add suffix '–H' to part number.

Mechanical Details

Side View 0.17 (4.5)

0.30 (7.6)

0.02 (0.5)

0.14 (3.7)

0.01 (0.2)

0.02 (0.5) 0.03 (1.0)

0.260 (6.60)

14   8   0.300 (7.62)

Top View

○1 2   5 6 7

0.100 (2.54)

0.600 (15.24)

0.768 (19.50)

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

ø 0.03 (ø 1.0)

0.10 (2.5)

0.10 (2.5)
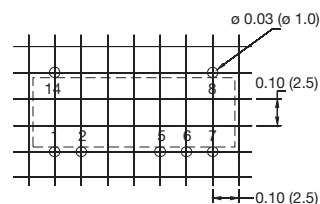
Pin	Function
1	Vin
2	GND
5	0 V
6	+Vout
7	N.C.
8	N.C.
14	N.C.

N.C. Not connected

Notes

1. All dimensions in inches (mm)
2. Tolerance: ±0.010 (±0.25)
3. Weight: 0.003 lbs (1.4 g)
4. Pin tolerance: ±0.004 (±0.10 mm)

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