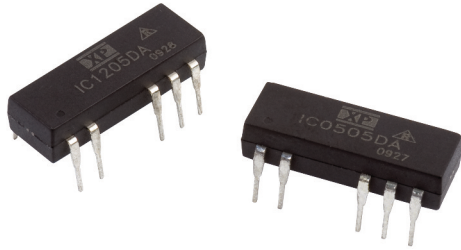


1 Watt

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 $\pm 10\%$
 Input Reverse Voltage Protection • None

Output

- Output Voltage • See table
 Minimum Load • 10%
 Line Regulation • 1.2%/1% ΔV_{in}
 Load Regulation • 10% to 100% load change, 5 Vout: 12.8% 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

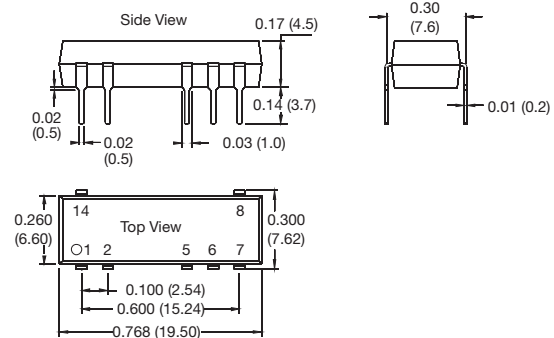
- Operating Temperature • -40 °C to +85 °C
 Storage Temperature • -55 °C to +125 °C
 Case Temperature • 105 °C max
 Cooling • Convection-cooled
 Lead Temperature • 250 °C, 0.06 in (1.5 mm) from case, 10 s

| Input Voltage | Output Voltage | Output Current | Efficiency (typ) | Model Number |
|---------------|----------------|----------------|------------------|-------------------------|
| 5 VDC | 5.0 V | 200 mA | 74% | IC0505DA ⁽¹⁾ |

Notes

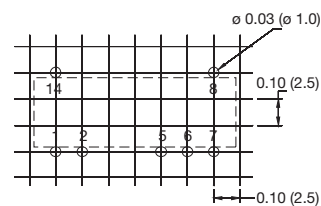
1. IC0505DA available with 3000 VDC isolation, add suffix '-H' to part number.

Mechanical Details



Recommended footprint

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



| Pin | Function |
|-----|-------------------|
| 1 | V _{in} |
| 2 | GND |
| 5 | 0V |
| 6 | +V _{out} |
| 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)