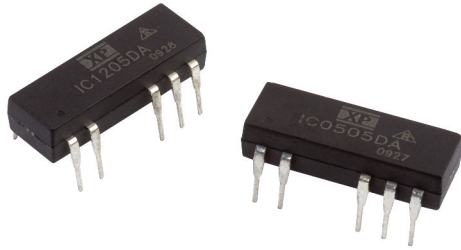


## IC Series



- 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%  $\Delta V_{in}$   
 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<sup>(1)</sup>, 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

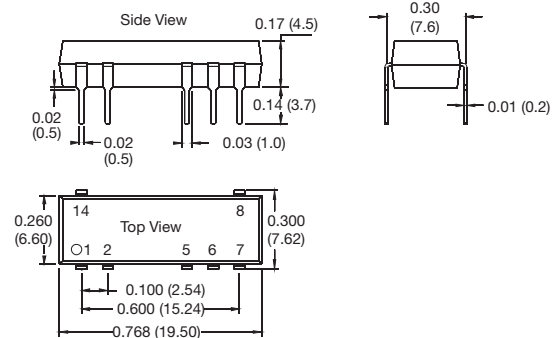
- Operating Temperature • -40 °C to +85 °C  
 Storage Temperature • -55 °C to +125 °C  
 Case Temperature • 105 °C max  
 Cooling • Convection-cooled  
 Lead Temperature • 250 °C, 0.06 in (1.5 mm) from case, 10 s

Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number
5 VDC	5.0 V	200 mA	74%	IC0505DA <sup>(1)</sup>

## Notes

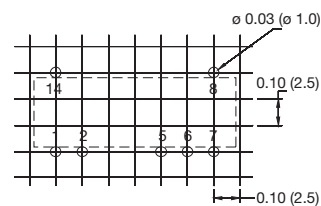
1. IC0505DA available with 3000 VDC isolation, add suffix 'H' to part number.

## Mechanical Details



## Recommended footprint

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



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

N.C. Not connected

## Notes

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

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