

ISG Series



- Regulated Single Output
- SMD Package
- Industry Standard Pinout
- 1000 VDC Isolation
- Short Circuit Protection
- MTBF >3.5 Mhrs
- 3 Year Warranty

Specification

Input

- | | |
|----------------------------------|---------------------|
| Input Voltage Range | • Nominal $\pm 5\%$ |
| Input Reverse Voltage Protection | • None |

Output

- | | |
|--------------------------|-----------------------------------|
| Output Voltage | • See table |
| Minimum Load | • 10% ⁽²⁾ |
| Line Regulation | • $\pm 0.25\%$ |
| Load Regulation | • $\pm 1\%$, 10-100% load change |
| Setpoint Accuracy | • $\pm 3\%$ at 100% load |
| Ripple & Noise | • 100 mV pk-pk 20 MHz bandwidth |
| Temperature Coefficient | • 0.03%/°C |
| Short Circuit Protection | • Continuous |

General

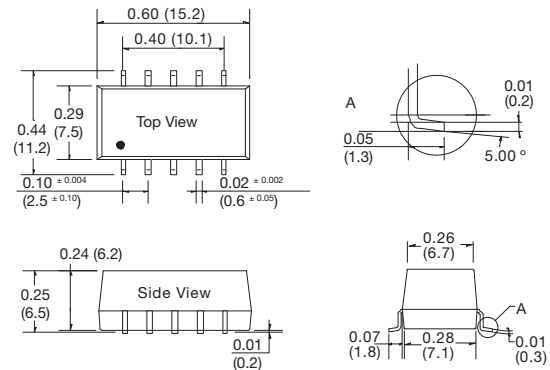
- | | |
|----------------------|---|
| Efficiency | • See table |
| Isolation Voltage | • 1000 VDC |
| Isolation Resistance | • $10^9 \Omega$ |
| Switching Frequency | • 100 kHz typical at nominal input, full load |
| MTBF | • >3.5 Mhrs to MIL-HDBK-217F at 25 °C, GB |

Environmental

- | | |
|-----------------------|---|
| Operating Temperature | • -40 °C to +85 °C, derate from 100% load at 70 °C to 60% load at 85 °C |
| Storage Temperature | • -55 °C to +125 °C |
| Case Temperature | • 100 °C max |
| Cooling | • Convection-cooled |
| Lead Temperature | • 260 °C, 0.06 in (1.5 mm) from case, 10 s |

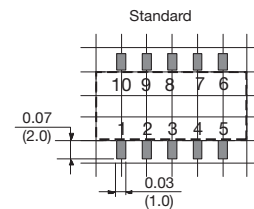
Input Voltage	Output Voltage	Output Current	Efficiency (typical)	Model Number
5 VDC	5 V	150 mA	68%	ISG0505A

Mechanical Details



Recommended footprint

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



Pin	Standard
1	GND
2	Vin
4	0 V
7	+Vo
3, 6, 8, 9	N.C.
5, 10	N.C.

N.C. Not connected

Notes

1. Operation at no load will not damage device but may not meet all specifications.
2. All dimensions in inches (mm)
3. Tolerance: ± 0.010 (± 0.25)
4. Weight: 0.003 lbs (1.7 g)
5. Pin tolerance: ± 0.004 (± 0.10 mm)