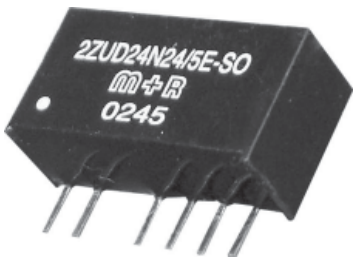


2 Watt

7 Pin SIL Package Z  
Suffix "SO"



- o Ultra-Miniature Size
- o Unregulated Output
- o 1000VDC Isolation
- o Galvanic Isolated Separated Dual Outputs



| MODEL NUMBER    | INPUT VOLTAGE | OUTPUT V1<br>VOLTAGE | OUTPUT V2<br>Voltage | OUTPUT V1/V2<br>CURRENT | %EFF |
|-----------------|---------------|----------------------|----------------------|-------------------------|------|
| 2ZUD5N5E-SO     | 5VDC          | 5VDC                 | 5VDC                 | 200/200mA               | 70   |
| 2ZUD5N5/9E-SO   |               |                      | 9VDC                 | 200/111mA               | 75   |
| 2ZUD5N5/12E-SO  |               |                      | 12VDC                | 200/84mA                | 75   |
| 2ZUD5N5/15N-SO  |               |                      | 15VDC                | 200/66mA                | 78   |
| 2ZUD5N9E-SO     |               | 9VDC                 | 9VDC                 | 111/111mA               | 75   |
| 2ZUD5N12E-SO    |               | 12VDC                | 12VDC                | 84/84mA                 | 78   |
| 2ZUD5N15E-SO    |               | 15VDC                | 15VDC                | 66/66mA                 | 80   |
| 2ZUD12N5E-SO    | 12VDC         | 5VDC                 | 5VDC                 | 200/200mA               | 70   |
| 2ZUD12N5/9E-SO  |               |                      | 9VDC                 | 200/111mA               | 75   |
| 2ZUD12N5/12E-SO |               |                      | 12VDC                | 200/84mA                | 75   |
| 2ZUD12N5/15E-SO |               |                      | 15VDC                | 200/66mA                | 78   |
| 2ZUD12N9E-SO    |               | 9VDC                 | 9VDC                 | 111/111mA               | 75   |
| 2ZUD12N12E-SO   |               | 12VDC                | 12VDC                | 84/84mA                 | 78   |
| 2ZUD12N15E-SO   |               | 15VDC                | 15VDC                | 66/66mA                 | 80   |

**SPECIFICATIONS**

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

**INPUT SPECIFICATIONS**

|                     |                |
|---------------------|----------------|
| Input Voltage Range | ±10%           |
| Input Filter        | Capacitor Type |

**OUTPUT SPECIFICATIONS**

|                               |              |                 |
|-------------------------------|--------------|-----------------|
| Voltage Accuracy              |              | ±5%             |
| Voltage Balance               |              | 2% typ.         |
| Temperature Coefficient       |              | 0.015%/°C       |
| Ripple and Noise, 20MHz BW    |              | 150 mV p-p max. |
| Short Circuit Protection      |              | 1 sec.          |
| Line Regulation per 1% of Vin |              | 1.2%            |
| Load Regulation               | 5V           | ±15% max.       |
|                               | 9V, 12V, 15V | ±10% max.       |

**GENERAL SPECIFICATION**

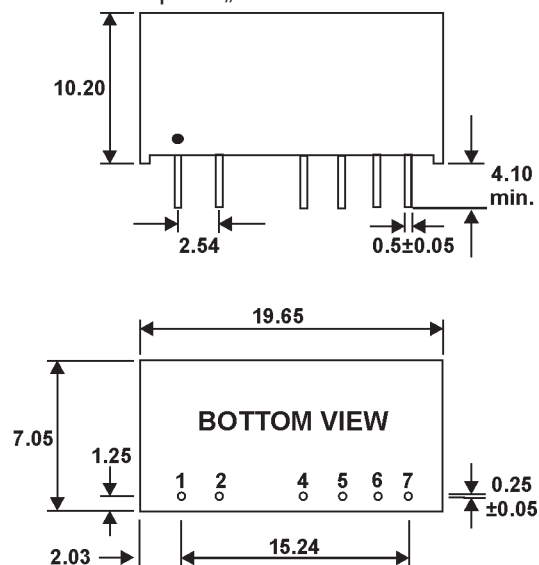
|                             |                              |            |
|-----------------------------|------------------------------|------------|
| Efficiency                  | see table                    |            |
| Isolation Voltage           | 1000 VDC min.                |            |
| Isolation Capacitance       | 56 pF typ.                   |            |
| Isolation Resistance        | 1000 Mohms min.              |            |
| Switching Frequency         | 50 KHz typ.                  |            |
| Operating Temperature Range | -40°C to +85°C               |            |
| Storage Temperature Range   | -55°C to +125°C              |            |
| Derating                    | see diagram                  |            |
| Package Weight              | 2.9 grams                    |            |
| Case Material               | Non-Conductive Black Plastic |            |
| MTBF (MIL.HDBK-217F)        | at 25°C                      | 988000 hrs |
|                             | at 85°C                      | 135000 hrs |

**SPECIFICATIONS**

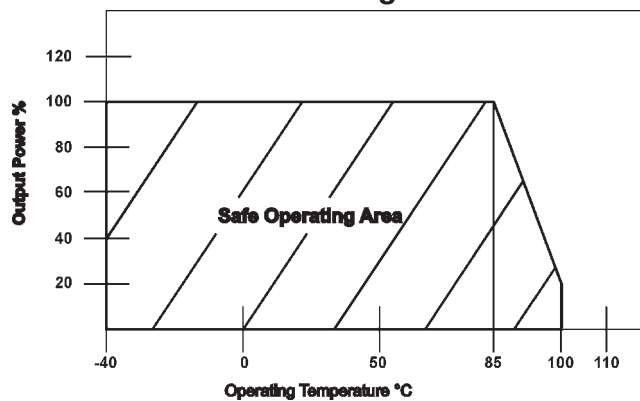
All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

**MECHANICAL SPECIFICATIONS**

Case "Z" - Option „SO“



All Dimensions in mm.

**DIAGRAMS****Derating****NOTICE:**

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.