

## General Specifications

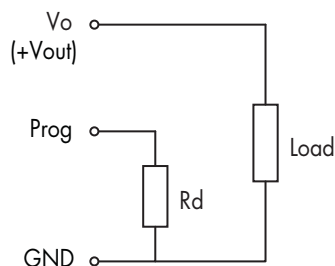
|                                                                        |                                    |                                                             |
|------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|
| Temperature ranges                                                     | – Operating<br>– Storage           | –40°C to +85°C<br>–55°C to +125°C                           |
| Derating                                                               |                                    | see application note                                        |
| Over temperature protection                                            |                                    | at +125°C typ.                                              |
| Humidity (non condensing)                                              |                                    | 5 – 95 % rel H max.                                         |
| Reliability, calculated MTBF<br>(MIL-HDBK-217F at +25°C, ground begin) | 6 A models:<br>10 A / 16 A models: | > 9 mio. h<br>> 3.3 mio. h                                  |
| Switching frequency                                                    |                                    | 300 kHz typ. (pulse width modulation - PWM)                 |
| Remote On/Off<br>(reference to GND)                                    |                                    | On: 1 VDC to Vin max. or open circuit.<br>Off: 0 to 0.3 VDC |

## Physical Specifications

|                            |                                    |                                                                                                                                                      |
|----------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                     | 6 A models:<br>10 A / 16 A models: | 2.8 g<br>6.0 g                                                                                                                                       |
| Soldering profile          | – SIL - Version<br>– SMT - Version | max. 265°C / 10 sec. (wave soldering)<br>peak temp. 245°C for 10 sec. max., 217°C for 90 sec. max. (Convection reflow solder process is recommended) |
| Moisture Sensitivity Level | – SMT - Version                    | 2a                                                                                                                                                   |

**Supporting documents:** [www.tracopower.com/overview/tos](http://www.tracopower.com/overview/tos)

## Output Voltage Adjustment



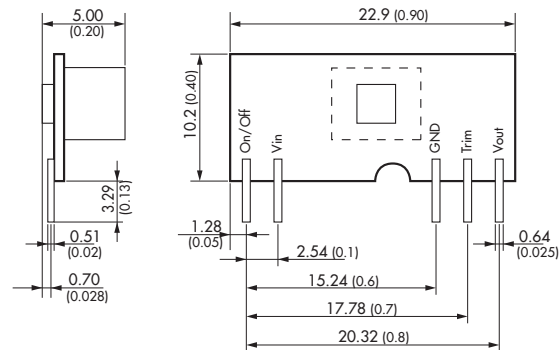
$$5 \text{ VDC input models: } R_d [\text{Ohm}] = \frac{21070}{V_o - 0.7525} - 5110$$

$$12 \text{ VDC input models: } R_d [\text{Ohm}] = \frac{10570}{V_o - 0.7525} - 1000$$

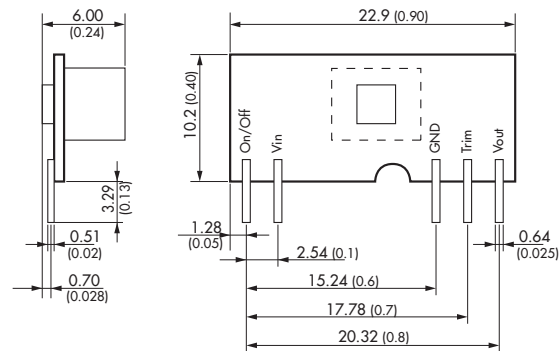
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

**Outline Dimensions mm (inches)**

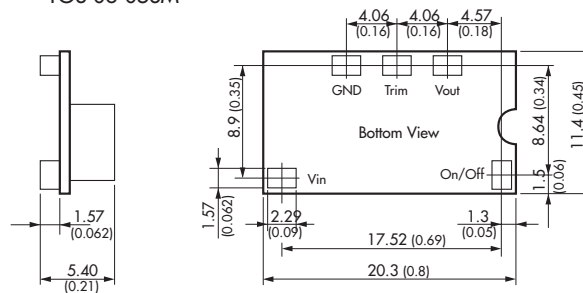
TOS 06-05SIL



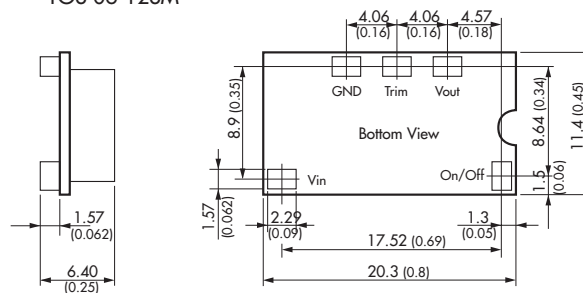
TOS 06-12SIL



TOS 06-05SM



TOS 06-12SM



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