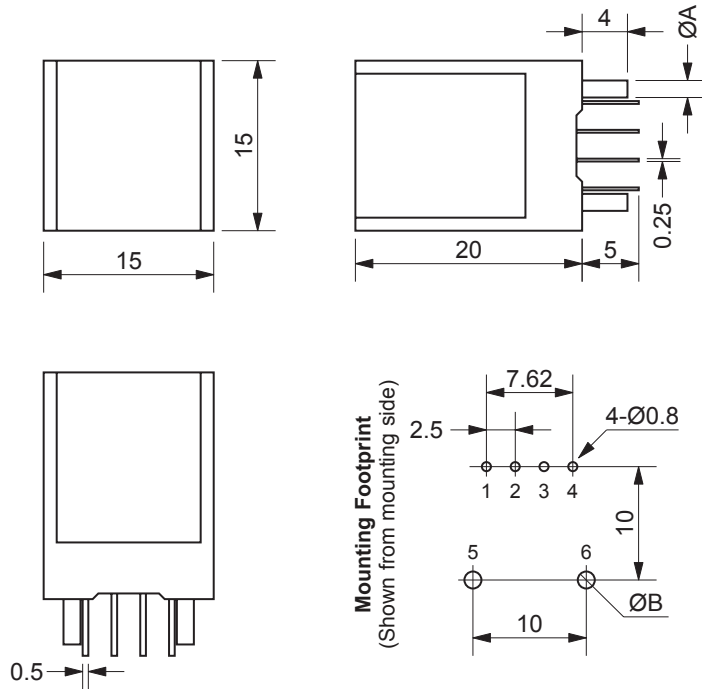


Characteristics of SCD10PUR

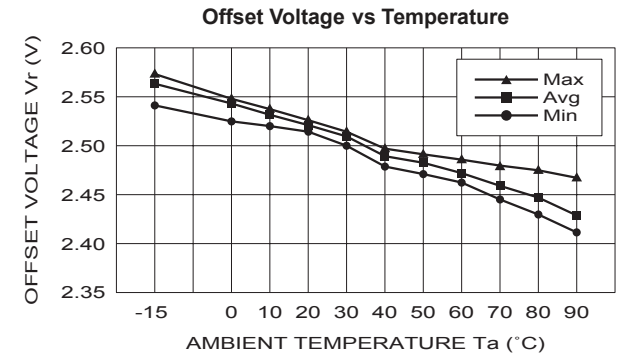
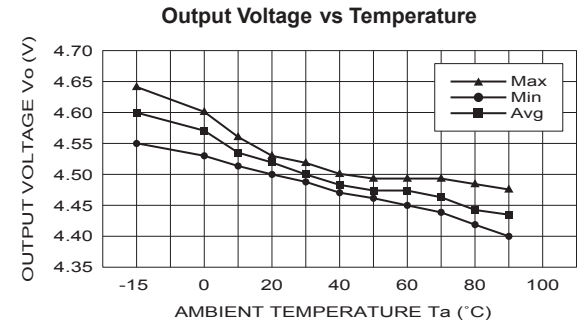
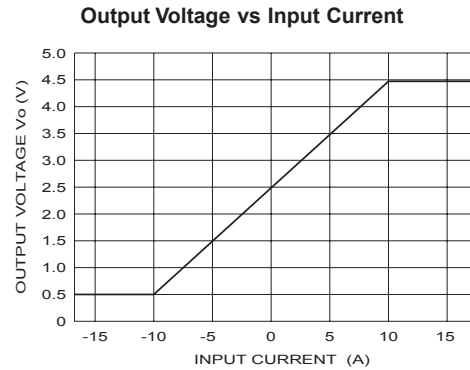


Pin Assignments

| | | |
|------|---|-----------|
| Pin# | 1 | +5V |
| | 2 | NC |
| | 3 | Output |
| | 4 | 0V |
| | 5 | Input (+) |
| | 6 | Input (-) |

Mounting Hole Dimensions

| | | |
|----------|-----|-----|
| Model | ØA | ØB |
| SCD03PUR | 0.6 | 1.1 |
| SCD05PUR | 0.9 | 1.4 |
| SCD10PUR | 1.1 | 1.6 |
| SCD15PUR | 1.4 | 1.9 |
| SCD20PUR | 1.7 | 2.2 |



SPECIFICATIONS

(Vcc = 5V, Rl = 10kΩ, Ta = 25°C)

| | | | | | |
|---------------------------------|--|----------|----------|----------|----------|
| Model | SCD03PUR | SCD05PUR | SCD10PUR | SCD15PUR | SCD20PUR |
| Rated Current | ±3A | ±5A | ±10A | ±15A | ±20A |
| Linearity Range | ±4A | ±6A | ±11A | ±16A | ±21A |
| Output Voltage | 4.5V±30mV @ +If; 0.5V±30mV @ -If | | | | |
| Zero Current Offset Voltage | 2.5V±20mV max. (after demagnetization) | | | | |
| Output Voltage Linearity | ≤0.5% @ rated current | | | | |
| Supply Voltage | 5V ±5% | | | | |
| Max Current Consumption | 25mA max. | | | | |
| Response | 3μS typ. @ 50 Amp/Turns/μS | | | | |
| Output V Temp Char | ±0.1%/°C max. @ rated current | | | | |
| Zero Current Offset V Temp Char | ±1.5mV/°C max. | | | | |
| Hysteresis | 8mV max. @ rated current to 0A | | | | |
| Primary Overcurrent | 10X rated current, 50 mS, no damage | | | | |
| Withstand Voltage | 2000 VAC, 50/60Hz, 1 minute between primary coil & terminal* | | | | |
| Insulation Resistance | 500 VDC, 500MΩ between primary coil & terminal | | | | |
| Operating Temp | -10° to +75° C | | | | |
| Storage Temp | -30 to +90°C | | | | |

Ordering Information

SCD□□PUR

Current Rating:

- 03: 3A
- 05: 5A
- 10: 10A
- 15: 15A
- 20: 20A

- Input Voltage:
- A: ±15VDC
 - B: ±12VDC
 - S: +12VDC
 - T: ±5VDC
 - U: +5VDC

- Input Current Polarity:
- N: +(DC only)
 - R: ± (bipolar)



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800-275-4899
Fax: 503-612-2383
Website: www.cui.com

| | | | |
|-----------|----------------|--------------|----|
| TITLE: | current sensor | REV: | A |
| PART NO. | SCDXXPUR | UNITS: | MM |
| DRAWN BY: | JRH | APPROVED BY: | |
| SCALE: | | | |

| | | |
|------|-------------|------------|
| REV. | DESCRIPTION | DATE |
| A | NEW DRAWING | 05/15/2009 |