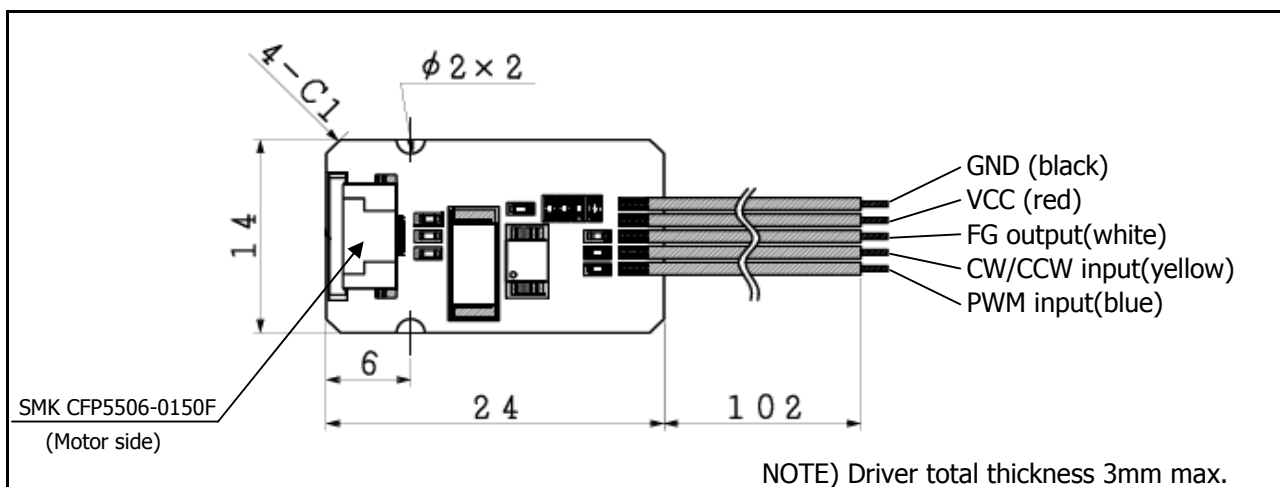


SSD06

Sensorless brushless motor drive circuit



For Micro DC brushless motors SBL04-08 and SBL07-12

Description

SSD06-R5A is a 3-phase sensorless drive circuit designed to operate brushless motor SBL04-08 and SBL07-12 exclusively.

FG (Frequency Generator) output provides a pulse per motor revolution.

Rotation direction input(CW/CCW input) is different by selected motors.

Following specifications assume the case of installing SBL04-0829 series, and SBL07-1218 series is the opposite installation.

Specifications

| | SSD06-R5A | | | |
|--|-------------|------|------|-----|
| | Min. | Typ. | Max. | |
| Voltage supply : VCC | 1.8 | 3.0 | 5.5 | V |
| Consumption current | | 5 | 10 | mA |
| Output current | | | 0.5 | A |
| Rotation direction input: CW voltage level (Low) | 0.0 | | 0.5 | V |
| Rotation direction input: CCW voltage level (High or Open) | VCC - 0.5 | | VCC | V |
| PWM duty control pulse input : Frequency | 20 | | 50 | kHz |
| PWM duty control pulse input : Low voltage level | 0.0 | | 0.5 | V |
| PWM duty control pulse input : High voltage level | VCC/2 | | VCC | V |
| FG pulse output : Low voltage level | 0.0 | | 0.4 | V |
| FG pulse output : High voltage level | | | VCC | V |
| Operating temperature range | -20 ... +75 | | | °C |
| Weight | 1.1 | | | g |