SS2B003 for 2-phase bi-polar stepping

• Features

1. Stepping motors can be driven at their top performance thanks to the constant current control of PWM mode.
2. This is a model that was designed specifically with high reliability in mind for mounting on an automobile. This can stand operation in the temperature from −30 to 80 degrees C.
3. Also capable of micro-step driving.
4. Can be driven at 1.5A/phase output current.

• Absolute maximum rating

Item	Terminal	Unit	Specs.
Power supply voltage (for motor)	+Vs	V	+40
– ditto – (for logic)	+Vcc	V	+18
Output current	Ao – Bo	A/ phase	±2.0
Junction temperature	–	°C	+150
Storage temperature	–	°C	−40 ~ +125
Operating case temp	–	°C	+80

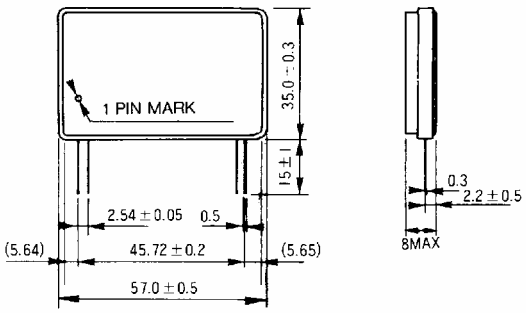
• Operating characteristics

Item	Terminal	Unit		Specs.	
				Min.	Max.
Power supply voltage (for motor)	+Vs	V		Vcc	+35
– ditto – (for logic)	+Vcc	V		+4.5	+5.5
Output current	Ao – Bo	A/phase		–	±1.5
Output loss voltage	–	V		–	3.6
Phase switching signal	Ai – Bi	V	L	0	+0.8
			H	+3.0	Vcc

• Description of terminals

Terminal code	Term. No.	Description
V_{SA},V_{SB}	4,16	Motor drive power terminals
Vcc	11	Logic power supply terminals
Ai,$\bar{A}$i,Bi,$\bar{B}$i	8,6,12,14	Phase switching signal terminals
$\bar{A}$o,Ao,Bo,$\bar{B}$o	1,2,19,18	Motor output terminals
$Vref_A$,$Vref_B$	7,13	Refence voltage terminals
R_{SA},R_{SB}	5,15	Current sensing rasister terminals
G_A,G_B	3,17	Power grounding terminals
Ga,Gb	9,10	Signal grounding terminals

• Dimensions (mm)



• An example of connection