Working Together for
a Greener Society

Future of Power Electronics and the Earth

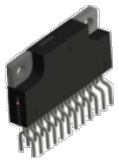
Motor Driver
(100 V Power Transistor Built-in)
Selection Guide

All information in this guide is as of the date of publication. Please make sure that you are using the latest version of the guide.
If you need more product information, please refer to our data sheets.
https://www.sanken-ele.co.jp/en

Stepper Motor Driver Overview

Optimal motor drivers for stepper motors of 12 and 24 VDC input.

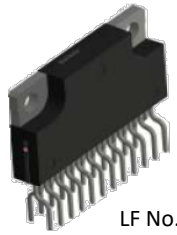
You can choose the optimal ICs according to your applications such as circuit method, input method, and step angle.

Circuit Method	Series	Package	Supply Voltage (max.)	Built-in MOSFETs Breakdown Voltage	Peak Current	Input Method	Partition Number	Detection Resistance	Page
Unipolar	SLA707xMPRT	ZIP23 (with Fin) 	46 V	100 V	2 A to 3 A	Clock in	1 to 16	Built-in	P.3
	SLA708xMPR					Phase in	1 to 2		P.4

SLA707xMPRT Series

Package

ZIP23
(Heatsink type)

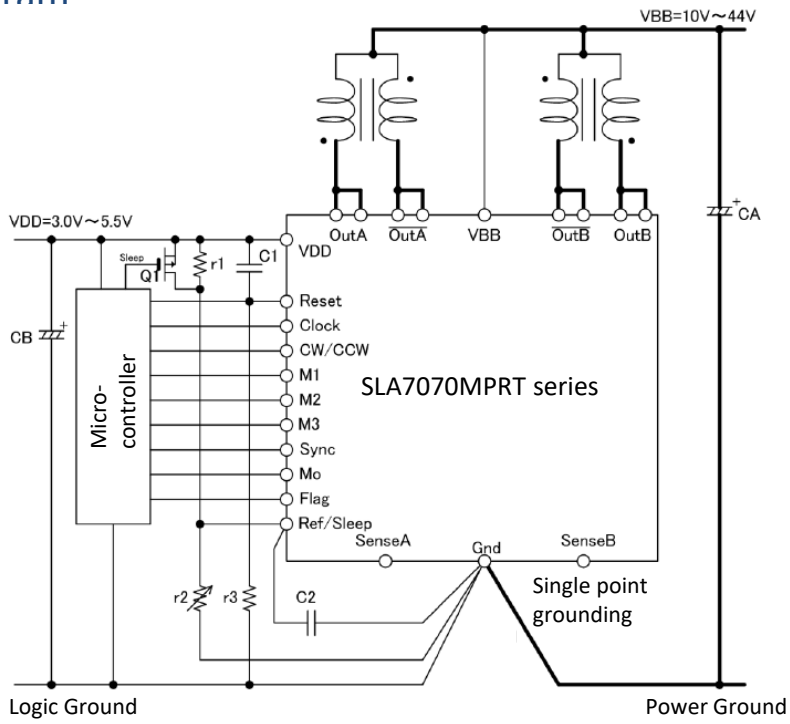


LF No. 2151

Features

- Application for 12 and 24 VDC Input
- Clock In Type
- Partition Number: 1 to 16
- Input Voltage Level: 3.3 V / 5.0 V
- Constant Current Control (off time fixed)
- Low Power Consumption
  (reduces power consumption in standby operation)
- Built-in Current Detection Resistor
- Prevention of Abnormal Noise
  in Motor Hold
- Avalanche Energy Resistance Guaranteed
- Protections:
  Protection of Motor Coil Open / Short
  Thermal Shutdown (TSD)

Circuit Diagram



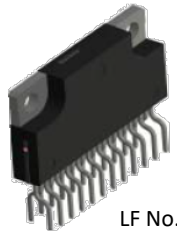
Series Selection Guide

Part Number	Input Method	Partition Number	I_O	Main Supply Voltage (Max.)	MOSFETs Breakdown Voltage
SLA7072MPRT	Clock in	1 to 2	2 A	46 V	100 V
SLA7073MPRT			3 A		
SLA7077MPRT		1~16	2 A		
SLA7078MPRT			3 A		

SLA708xMPR Series

Package

ZIP23
(Heatsink type)

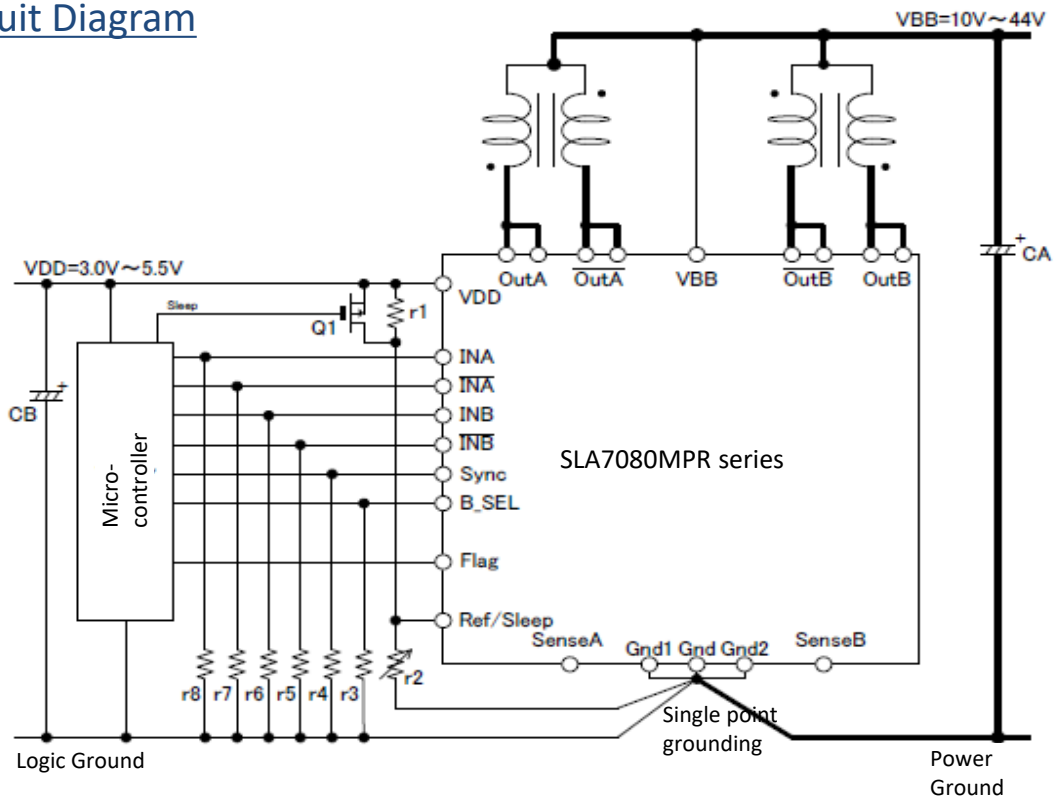


LF No. 2151

Features

- Application for 12 and 24 VDC Input
- Phase In Type
- Partition Number: 1 to 2
- Input Voltage Level: 3.3 V / 5.0 V
- Constant Current Control (off time fixed)
- Low Power Consumption
  (reduces power consumption in standby operation)
- Built-in Current Detection Resistor
- Prevention of Abnormal Noise
  in Motor Hold
- Avalanche Energy Resistance Guaranteed
- Protections:
  Protection of Motor Coil Open / Short
  Thermal Shutdown (TSD)

Circuit Diagram



Series Selection Guide

Part Number	Input Method	Partition Number	I_O	Main Supply Voltage (Max.)	MOSFETs Breakdown Voltage
SLA7082MPR	Phase in	1 to 2	2 A	46 V	100 V
SLA7083MPR			3 A		

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