

## Toshiba Launches High-Voltage Dual-channel Solenoid Driver IC

The TB67S112PG is a high-voltage dual-channel solenoid driver IC suitable for solenoid and relay drive that can independently control each output. Mass production starts today.



### Three features

- Two channels, each with a low-side MOSFET and regenerative common diode
- High voltage (50V) and low ON resistance (0.3Ω) drive
- Built-in error detections with automatic reset functions (thermal shutdown and over current detection) and thermal shutdown flag output

### Applications

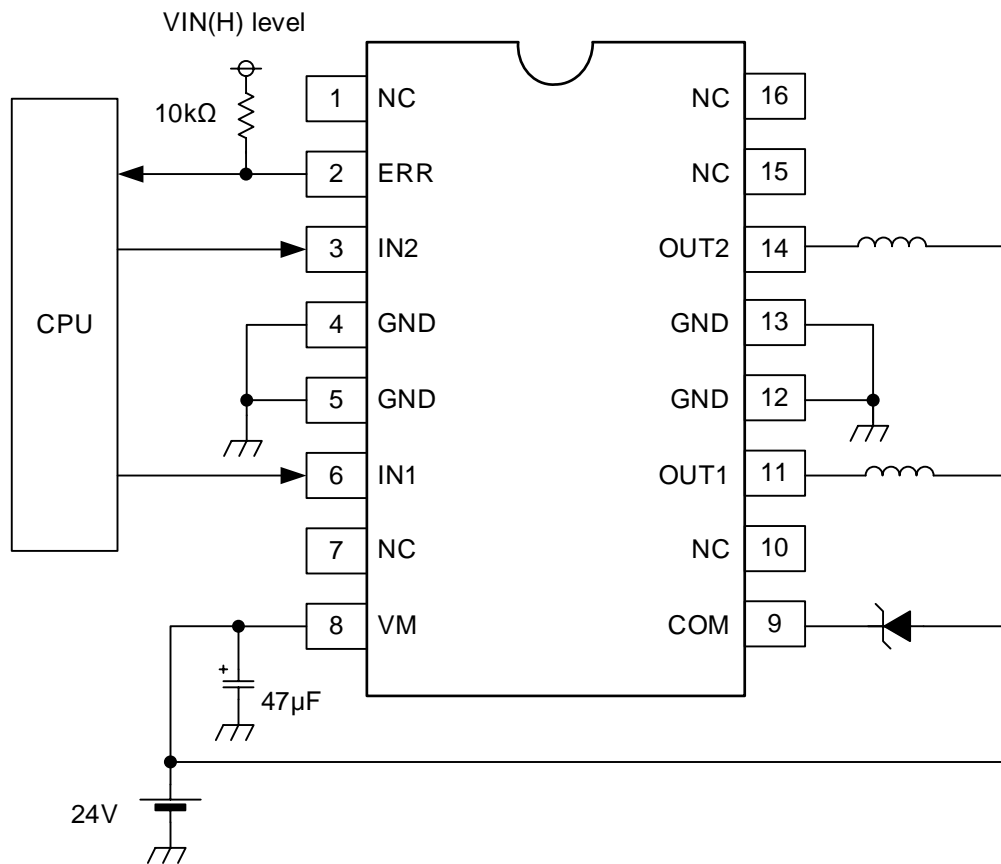
Amusement equipment (slot machines), home appliances (refrigerators and air-conditioners), and industrial equipment (banking terminals such as ATMs, office automation equipment, and factory automation equipment)

### Product specifications

Part number		TB67S112PG
Function		Dual-channel solenoid driver
Package		DIP16-P-300-2.54A
Input	Control I/F	Parallel input (TTL level)
	VM power supply voltage	4.5V to 47V
Output	Output rating (voltage)	50V (max)
	Output rating (current)	1.5A per channel (max)
	Output ON resistance	0.3Ω (typ.)
	Common diode	Built-in
Safety function		Thermal shutdown and over current detection with automatic reset functions Under voltage lockout Thermal shut down flag output



## Application circuit example



Note: The application circuit is provided for reference purposes only. Especially, thorough evaluation is required on the phase of mass production design. Providing these application circuit examples does not grant a license for industrial property rights.

Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product will be used with or for.

**TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION**

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