



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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AP1013AS

18V 1ch H-Bridge Motor Driver

Description

The AP1013AS is the single H-bridge motor driver which has four drive modes, forward, reverse, brake and standby, to operate up to 18V motor supply voltage. N type LDMOS is built in both high and low side for output driver to achieve small package. It also has under voltage detection and thermal shut down circuits. It is suitable for driving various types of small motors.

Key Features

- Control Supply Voltage: 2.7V to 5.5V
- Logic Terminal Supply Voltage: 1.62V to Control Supply Voltage
- Wide Motor Drive Operating Voltage: 2V to 18V (NMOS high side and Low side architecture)
- Maximum Output Current (DC): 1.1A@Ta=25°C, 0.8A@Ta=85°C
- Maximum Output Current (Peak): 1.8A (Ta=25°C, less than 20ms in 200ms)
- H-Bridge On Resistance: RON(TOP+BOT)=0.36Ω (Typ.)@25°C
- Power-Down Mode: VM leakage current less than 1μA (Ta=25°C)
- Built-in Under Voltage Detection Circuit: Detection Voltage ; 2.2V(Typ.)
- Built-in Thermal Shut Down Circuit (Tj): 175°C (Typ.)
- Junction Temperature: 150°C (Max.)
- Package: 16pins TSSOP Package

Block Diagram

