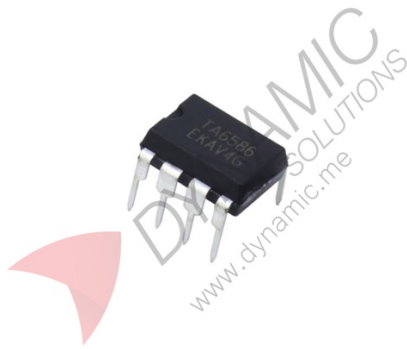


TA6586 Bi-Directional DC Motor Driver IC DIP8



Features:

The TA6586 is a bi-directional DC motor driver in an 8-pin lead-free DIP package, manufactured by RZ Wuxi Smart Microelectronics, operating from 3.0V to 14V with a standby current of 2uA or less. Two logic inputs, FI and BI, set the state of the paired outputs FO and BO: FI high with BI low drives forward, FI low with BI high drives reverse, both inputs high applies the brake with both outputs low, and both inputs low leaves the outputs open. The IC includes thermal shutdown, over current limit and short circuit protection, plus an inbuilt diode that blocks reverse inductive load current, so a motor or relay connects directly with no external components. There is no pin-to-pin compatible equivalent; alternatives with different pinouts include the L293D, L298, TB6612FNG, DRV8833, MAX1508, DRV8837, MAX1919, L9110 and DRV8871.

Specifications	
Device	TA6586
Manufacturer	RZ, Wuxi Smart Microelectronics
Type	Bi-directional DC motor driver
Supply Voltage Range	3.0 to 14V
Standby Current	2uA max
Package	DIP8, lead-free
Brake Function	Built-in
Thermal Shutdown	Yes
Over Current Limit	Yes
Short Circuit Protection	Yes
Reverse Inductive Current	Blocked by inbuilt diode
Output Saturation Voltage Drop	Low
Control Inputs	2, forward and backward
Pin-to-Pin Equivalent	None available
Dimensions	0.9x0.7x0.8cm
Usage	Driving DC motors and relays in hobby projects and motor-operated circuits

Pinouts:

Pin Name	Description
BI	Backward input
FI	Forward input
GND	Ground
Vcc	Supply voltage
FO	Forward output
BO	Backward output

