


## Full Bridge Motor Driver 8-Pin SO T/R

<b>Manufacturer:</b>	<a href="#">Diodes Inc</a>
<b>Package/Case:</b>	SOP8
<b>Product Type:</b>	Driver ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

## General Description

The ZXBM5210 is a highly integrated high performance single chip solution for reversible brushed direct current (DC) motors and actuators. For system flexibility the device has four modes of operation: forward, reverse, brake and standby modes. The operating mode and direction of rotation can be selected by the FWD and REV pins. Additionally, the motor speed can be controlled linearly by changing the duty ratio of the PWM signal on the FWD or REV pins in the PWM mode or alternatively by adjusting the DC voltage input signal to the VREF pin in the Vref mode. The device has a wide supply voltage range of 3V to 18V and the operating ambient temperature range of -40°C to +105°C. To help protect the IC and the motor coil the ZXBM5210 includes under voltage lockout, over voltage, over current and over thermal shutdown protection functions. Once the safe operating range has been exceeded the device shuts down the output drive to help prevent over stress on the IC or the coil. The device internal current protection threshold is 1.5A typical at 12V. To aid power efficiency the ZXBM5210 has a standby mode, consuming 32µA typical. Product reliability and robustness is further enhanced by the devices' high ESD withstand capability of 6kV and extended operation temperature ranges. The ZXBM5210 is available in the standard SO-8 and thermally enhanced SO-8EP packages.

## Key Features

Supports single-coil reversible DC motor applications

Operating voltage: 3V to 18V

Four modes of operations: Forward, Reverse, Brake and Standby

Low quiescent current of 0.85mA typical in normal operation and 32µA in standby mode

Internal over current protection

Under voltage lockout and over voltage protection

Over temperature protection

6kV ESD withstand capability

Standard SO-8 and thermally enhanced SO-8EP

Totally Lead-Free & Fully RoHS Compliant

Halogen and Antimony Free. "Green" Device

## Application

5V / 12V / 15V DC reversible motors

Home appliances

Handheld power tools

Valve open and close

Remote control motorized toys

Medium Voltage/ Low Power DC Motors

## Recommended For You

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### ZXRE125EFTA

Diodes Inc  
SOT-23

### ZXCT1010E5TA

Diodes Inc  
SOT23-5

### ZXBM5210-SP-13

Diodes Inc  
HSOP8

### ZXCT1008FTA

Diodes Inc  
SOT-23-3

### ZXRE125DFTA

Diodes Inc  
SOT-23

### ZXCT1109QSA-7

Diodes Inc  
SOT-23

### ZXGD3006E6TA

Diodes Inc  
SOT23-6

### ZXGD3004E6TA

Diodes Inc  
SOT-23-6

### ZXGD3114N7TC

Diodes Inc  
SO-7

### ZXGD3112N7TC

Diodes Inc  
SO-7

### ZXGD3108N8TC

Diodes Inc  
SOP-8

### ZXBM5409Q-N-U

Diodes Inc  
PDIP-8

### ZXCT1023DFGTA

Diodes Inc  
TDFN4

### ZXGD3111N7TC

Diodes Inc  
7-SO

### AP3012KTR-G1

Diodes Inc  
SOT23-5