

H-Bridge Motor Driver Automotive 24-Pin SSOP EP T/R

Manufacturers [Infineon Technologies Corporation](#)

Package/Case 24-LSSOP (0.154, 3.90mm Width)

Product Type Power Management ICs

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for TLE7181EMXUMA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The TLE7181EM is a H-bridge driver IC dedicated to control 4 N-channel MOSFETs typically forming the converter for a high current DC motor drives in the automotive sector. It incorporates several protection features such as over current and short circuit detection as well as under-, over voltage and over temperature diagnosis. Typical applications are fans, pumps and electric power steering. The TLE7181EM is designed for a 12V power net.

Features

PWM/DIR-interface drives 4 N-Channel Power MOSFETs

Unlimited D.C. switch on time of Low and Highside MOSFETs

0 ... 95% at 20kHz & 100% Duty cycle of High Side MOSFETs

0 ... 100 % Duty cycle of Low Side MOSFETs

Additional output to drive a reverse polarity protection N-MOSFET

Current sense OPAMP

Low quiescent current mode

Internal shoot through protection

Adjustable dead time

1 bit diagnosis / ERR

Over current warning based on current sense OPAMP with fixed warning level

Analog adjustable Short Circuit Protection levels via SCDL pin with open pin detection

Over temperature warning

Over voltage warning

Under voltage warning and shutdown

Green Product (RoHS compliant)

AEC Qualified

Improved application efficiency

High temperature robustness through expose pad

Application

Pumps

Low End Electric Power steering

Power tail gate

Power sliding Door

Parking Brake

Pretensioner

Related Products



[TLE4264-2G](#)

Infineon Technologies Corporation
SOT-223



[TLE4266G](#)

Infineon Technologies Corporation
SOT-223



[TLE4726G](#)

Infineon Technologies Corporation
P-DSO-24



[TLE6282G](#)

Infineon Technologies Corporation
SOP-20



[TLE4271-2G](#)

Infineon Technologies Corporation
TO-263



[TLE4208G](#)

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SOP-28



[TLE7182EM](#)

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SSOP24



[TLE8386-2EL](#)

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SOP-14