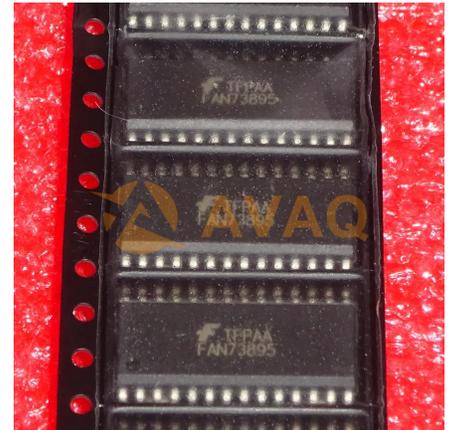


3-Phase Half-Bridge Gate-Drive IC

Manufacturer:	ON Semiconductor, LLC
Package/Case:	SOP-28
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The FAN73895 is a monolithic three-phase half-bridge gate-drive IC designed for high-voltage, high-speed, driving MOSFETs and IGBTs operating up to +600 V.

ON Semiconductor's high-voltage process and common-mode noise-canceling technique provide stable operation of high-side drivers under high-dv/dt noise circumstances.

An advanced level-shift circuit allows high-side gate driver operation up to $V_S = -9.8$ V (typical) for $V_{BS} = 15$ V. The protection functions include under-voltage lockout and inverter over-current trip with an automatic fault-clear function. Over-current protection that terminates all six outputs can be derived from an external current-sense resistor. An open-drain fault signal is provided to indicate that an over-current or under-voltage shutdown has occurred. The UVLO circuits prevent malfunction when V_{DD} and V_{BS} are lower than the threshold voltage.

Output drivers typically source and sink 350 mA and 650 mA, respectively; which is suitable for three-phase half-bridge applications in motor drive systems.

Key Features

Floating Channel for Bootstrap Operation to +600 V

Typically 350 mA/650 mA Sourcing/Sinking Current-Driving Capability for All Channels

Extended Allowable Negative V

S

DD

BS

Output In- Phase with Input Signal

Over-Current Shutdown Turns Off All Six Drivers

Matched Propagation Delay for All Channels

3.3 V and 5.0 V Input Logic Compatible

Adjustable Fault-Clear Timing

Built-in Advanced Input Filter

Built-in Shoot-Through Prevention Logic

Built-in Soft Turn-Off Function

Common-Mode dv/dt Noise-Canceling Circuit

Built-in UVLO Functions for All Channels

Application

AC-DC Merchant Power Supply

Consumer

Consumer Appliances

Industrial Motor

Motion

Motion Control - Home Appliance

Motion Control - Home Appliance/Industrial Motor

Motion Control - Industrial Motor

Motion-Industrial motor



Recommended For You

FAN9611MX

ON Semiconductor, LLC
SOP16

FAN3111ESX

ON Semiconductor, LLC
SOT23-5

FAN6300AMY

ON Semiconductor, LLC
SOP-8

FAN7842MX

ON Semiconductor, LLC
SOP8

FAN73933MX

ON Semiconductor, LLC
SOIC-14

FAN7380MX

ON Semiconductor, LLC
SOP8

FAN4810N

ON Semiconductor, LLC
DIP16

FAN7527BN

ON Semiconductor, LLC
DIP-8

FAN7530MX

ON Semiconductor, LLC
SOP-8

FAN7529MX

ON Semiconductor, LLC
SOP-8

FAN5405UCX

ON Semiconductor, LLC
WLCSP-20

FAN7382MX

ON Semiconductor, LLC
SOP-8

FAN73711MX

ON Semiconductor, LLC
SOP8

FAN7392N

ON Semiconductor, LLC
DIP-14

FAN6920MRMY

ON Semiconductor, LLC
SOP-16