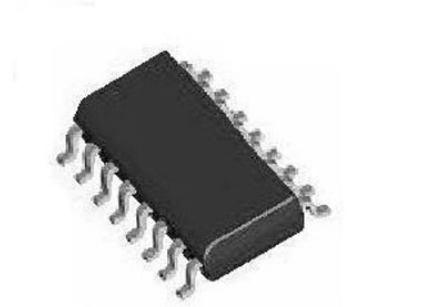


Isolated high current and high efficiency IGBT gate driver with internal galvanic isolation.

Manufacturers	ON Semiconductor, LLC
Package/Case	SOIC-16W
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for NCV57000DWR2G or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

NCV57000 is a high-current single channel IGBT driver with internal galvanic isolation, designed for high system efficiency and reliability in high power applications. Its features include complementary inputs, open drain FAULT and Ready outputs, active Miller clamp, accurate UVLOs, DESAT protection, soft turn-off at DESAT, and separate high and low (OUTH and OUTL) driver outputs for system design convenience. NCV57000 accommodates both 5V and 3.3V signals on the input side and wide bias voltage range on the driver side including negative voltage capability. NCV57000 provides > 5 kVrms (UL1577 rating) galvanic isolation and > 1200 V_{orm} (working voltage) capabilities. NCV57000 is available in the wide-body SOIC-16 package with guaranteed 8 mm creepage distance between input and output to fulfill reinforced safety insulation requirements.

Features

High Current Output(+4/-6 A) at IGBT Miller Plateau Voltages

Improves system efficiency

Short Propagation Delays with Accurate Matching

Improves PWM signal integrity

DESAT with Soft Turn Off

Protection against overload and short circuits

Active Miller Clamp and Negative Gate Voltage

Prevents spurious gate turn-on

High Transient & Electromagnetic Immunity

Ruggedness in fast slew rate high voltage and high current switching applications

5 kV Galvanic Isolation

Galvanic isolation to separate high voltage and low voltage sides to provide safety and protection

Application

ONSEMI

Related Products



[NCP603SN330T1G](#)

ON Semiconductor, LLC
TSOP-5



[NCP1399ACDR2G](#)

ON Semiconductor, LLC
SOP16



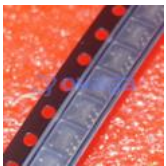
[NCP1234AD65R2G](#)

ON Semiconductor, LLC
SOIC-7



[NCP3334DADJR2G](#)

ON Semiconductor, LLC
SOIC-8



[NCP551SN18T1G](#)

ON Semiconductor, LLC
SOT-23-5



[NCP330MUTBG](#)

ON Semiconductor, LLC
UDFN-4



[NCV4274ADS50R4G](#)

ON Semiconductor, LLC
SOT263



[NCP1252ADR2G](#)

ON Semiconductor, LLC
SOIC-8