MC34063A, MC33063A, SC34063A, SC33063A, NCV33063A

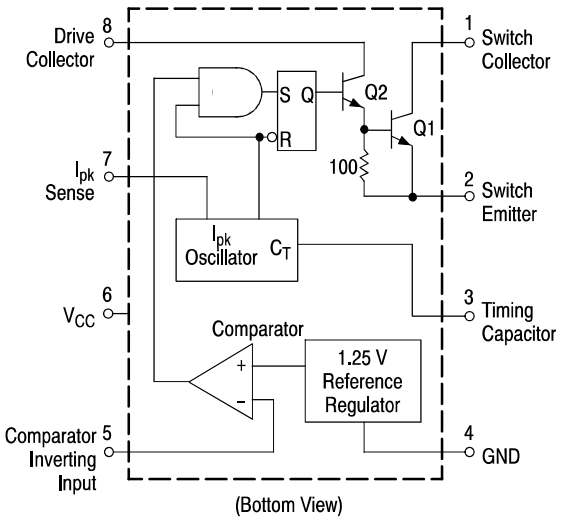
Inverting Regulator - Buck, Boost, Switching

1.5 A

The MC34063A Series is a monolithic control circuit containing the primary functions required for DC−to−DC converters. These devices consist of an internal temperature compensated reference, comparator, controlled duty cycle oscillator with an active current limit circuit, driver and high current output switch. This series was specifically designed to be incorporated in Step−Down and Step−Up and Voltage−Inverting applications with a minimum number of external components. Refer to Application Notes AN920A/D and AN954/D for additional design information.

Features

- Operation from 3.0 V to 40 V Input
- Low Standby Current
- Current Limiting
- Output Switch Current to 1.5 A
- Output Voltage Adjustable
- Frequency Operation to 100 kHz
- Precision 2% Reference
- NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable
- These Devices are Pb−Free, Halogen Free/BFR Free and are RoHS Compliant



(Bottom View)

This device contains 79 active transistors.

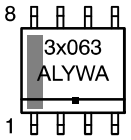
Figure 1. Representative Schematic Diagram

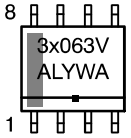
ON Semiconductor®

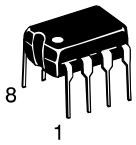
www.onsemi.com

MARKING DIAGRAMS

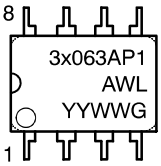
SOIC−8
D SUFFIX
CASE 751

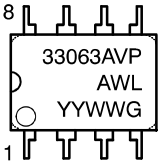


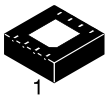




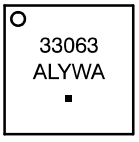
PDIP−8
P, P1 SUFFIX
CASE 626







DFN8
CASE 488AF



x	= 3 or 4
A	= Assembly Location
L, WL	= Wafer Lot
Y, YY	= Year
W, WW	= Work Week
G or ▪	= Pb−Free Package

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 12 of this data sheet.