

Product Overview

MC33163: Buck / Boost / Inverting Regulator, Switching, 3.4 A

For complete documentation, see the data sheet.

The MC33163 series are monolithic power switching regulators that contain the primary functions required for dc-dc converters. This series is specifically designed to be incorporated in buck, boost and inverting applications with a minimum number of external components. These Buck Boost Inverting Switching Regulators consist of two high gain voltage feedback comparators, temperature compensated reference, controlled duty cycle oscillator, driver with bootstrap capability for increased efficiency, and a high current output switch. Protective features consist of cycle-by-cycle current limiting, and internal thermal shutdown. Also included is a low voltage indicator output designed to interface with microprocessor based systems. These devices are contained in a 16 pin dual-in-line heat tab plastic package for improved thermal conduction.

Features

- Output Switch Current in Excess of 3.0 A
- Operation from 2.5 V to 40 V Input
- Low Standby Current
- Precision 2% Reference
- Controlled Duty Cycle Oscillator
- Driver with Bootstrap Capability for Increased Efficiency
- Cycle-by-Cycle Current Limiting
- Internal Thermal Shutdown Protection
- Low Voltage Indicator Output for Direct Microprocessor Interface
- Heat Tab Power Package

For more features, see the data sheet

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	V _O Typ (V)	I _O Typ (A)	Efficiency (%)	f _{sw} Typ (kHz)	Package Type
MC33163DWG	1.6266	Pb-free Halide free	Active	Step-Up/Step-Down	Voltage Mode	2.5	40	1.25 to 40	3.4			SOIC-16W
MC33163DWR2G	1.6266	Pb-free Halide free	Active	Step-Up/Step-Down	Voltage Mode	2.5	40	1.25 to 40	3.4			SOIC-16W
MC34163DWG	1.6	Pb-free Halide free	Active	Step-Up/Step-Down	Voltage Mode	2.5	40	1.25 to 40	3.4			SOIC-16W
MC34163DWR2G	1.6	Pb-free Halide free	Active	Step-Up/Step-Down	Voltage Mode	2.5	40	1.25 to 40	3.4			SOIC-16W

For more information please contact your local sales support at www.onsemi.com.

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