

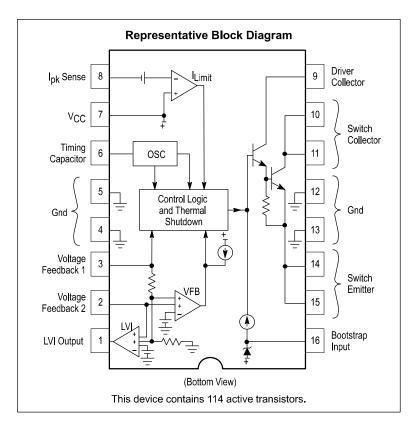
## **Power Switching Regulators**

The MC34163 series are monolithic power switching regulators that contain the primary functions required for dc-to-dc converters. This series is specifically designed to be incorporated in step-up, step-down, and voltage-inverting applications with a minimum number of external components.

These devices 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.

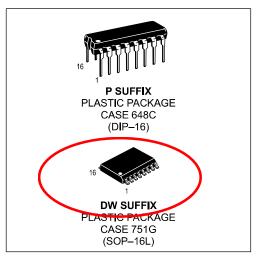
- Output Switch Current in Excess of 3.0 A
- Operation from 2.5 V to 40 V Input
- Low Standby Current
- Precision 2% Reference
- Controlled Duty Cycle Oscillator
- Driver with Bootstrap Capability for Increased Efficiency
- Cycle—by—Cycle Current Limiting
- Internal Thermal Shutdown Protection
- Low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

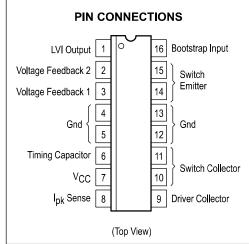


## MC34163 MC33163

## POWER SWITCHING REGULATORS

SEMICONDUCTOR TECHNICAL DATA





## ORDERING INFORMATION

ORDERING IN CRIMATION		
Device	Operating Temperature Range	Package
MC34163DW	T <sub>A</sub> = 0° to +70°C	SOP-16L
MC34163P		D <b>I</b> P-16
MC33163DW	$T_A = -40^{\circ} \text{ to } +85^{\circ}\text{C}$	SOP-16L
MC33163P		D <b>I</b> P-16