# MIC2544-2YMM

Data Sheet

Programmable Current Limit High-Side Switch Preliminary Information

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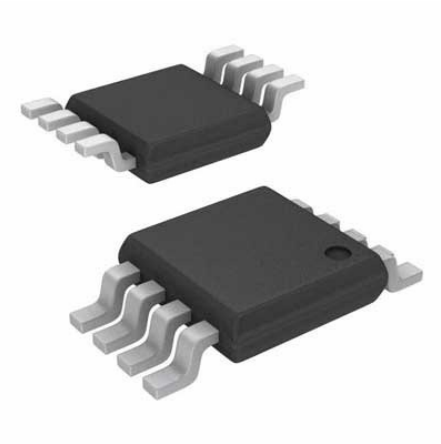
|---|---|
| Manufacturers | Microchip Technology, Inc |
| Package/Case | MSOP-8 |
| Product Type | Power Management ICs |
| RoHS | Rohs |
| Lifecycle | |



Images are for reference only

Please submit RFQ for MIC2544-2YMM or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

## General Description

The MIC2544 and MIC2548 are integrated, high-side power switches optimized for low loss DC power switching and other power management applications, including Advanced Configuration and Power Interface (ACPI).The MIC2544/48 is a cost-effective, highly integrated solution that requires few external components to satisfy USB and ACPI requirements.Load current management features include a precision resistor-programmable output current-limit and a soft-start circuit which minimizes inrush current when the switch is enabled. Thermal shutdown, along with current-limit, protects the switch and the attached device.The MIC2544/48's open-drain flag output is used to indicate current-limiting or thermal shutdown to a local controller. The MIC2548 has an additional internal latch which turns the output off upon thermal shutdown providing robust fault control. The enable signal is compatible with both 3V and 5V logic, and is also used as the thermal shutdown latch reset for the MIC2548.The MIC2544 and MIC2548 are available in active-high and active-low enable versions in the 8-pin SOIC (small-outline integrated circuit) and 8-pin MSOP (microsmall- outline package).

## Features

2.7V to 5.5V input

Adjustable current-limit up to 1.5A

Reverse current flow blocking (no "body diode")

75µA typical on-state supply current

1µA typical off-state supply current

120mΩ maximum on-resistance

Open-drain fault flag

Thermal shutdown

Thermal shutdown output latch (MIC2548)

2ms (slow) turn-on and fast turnoff

Available with active-high or active-low enable

UL recognized

### Related Products

MIC94325YMT-TR

Microchip Technology, Inc

UDFN-6

MIC4684YM

Microchip Technology, Inc

SOIC-8

MIC2009A-1YM6-TR

Microchip Technology, Inc

SOT-23-6

MIC2090-1YM5-TR

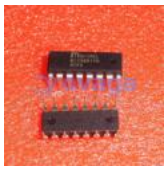
Microchip Technology, Inc

SOT-23-5

MIC5841YWM-TR

Microchip Technology, Inc

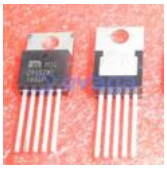
SOIC-18



MIC5891YN

Microchip Technology, Inc

PDIP-16



MIC29152WT

Microchip Technology, Inc

TO-220-5

MIC5209YM

Microchip Technology, Inc

SOIC-8