

Voltage Regulator IC; Package/Case:8-SOIC; Supply Voltage Max:30V; Current Rating:2A; Output Voltage Max:1.235V; Voltage Regulator Type:Switching; Mounting Type:Surface Mount

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



Images are for reference only

Please submit RFQ for MIC4684YM or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC4684 is a high-efficiency 200kHz stepdown (buck) switching regulator. Power conversion efficiency of above 85% is easily obtainable for a wide variety of applications. The MIC4684 achieves 2A of continuous current in an 8-lead SO (small outline) package at 60°C ambient temperature.

High efficiency is maintained over a wide output current range by utilizing a boost capacitor to increase the voltage available to saturate the internal power switch. As a result of this high efficiency, no external heat sink is required. The MIC4684, housed in an SO-8, can replace larger TO-220 and TO-263 packages in many applications.

The MIC4684 allows for a high degree of safety. It has a wide input voltage range of 4V to 30V (34V transient), allowing it to be used in applications where input voltage transients may be present. Built-in safety features include over-current protection, frequency-foldback short-circuit protection, and thermal shutdown.

The MIC4684 is available in an 8-lead SO package with a junction temperature range of -40°C to +125°C.

Features

SO-8 package with 2A continuous output current

Over 85% efficiency

Fixed 200kHz PWM operation

Wide input voltage range: 4V to 30V

Output voltage adjustable to 1.235V

All surface mount solution

Internally compensated with fast transient response

Over-current protection

Frequency foldback short-circuit protection

Thermal shutdown



Related Products



[MIC94325YMT-TR](#)

Microchip Technology, Inc
UDFN-6



[MIC2009A-1YM6-TR](#)

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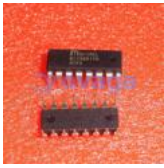
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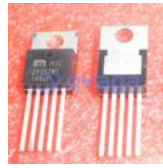
[MIC5841YWM-TR](#)

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SOIC-8