MIC94062YC6-TR

Data Sheet

Power Load Distribution Switch, Active High, 1 Output, 5.5 V, 2A, 0.077ohm, SC-70-6

Manufacturers	Microchip Technology, Inc
Package/Case	SC70-6
Product Type	Power Management ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for MIC94062YC6-TR or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The MIC94060-63 are high-side load switches designed for operation between 1.7V to 5.5V. The devices contain a low on-resistance P-channel MOSFET that supports over 2A of continuous current. The MIC94061and MIC94063 features an active load discharge circuit which insures capacitive loads retain no charge when the main switch is in an OFF state.

MIC94060-61 feature rapid turn on while MIC94062-63 provide a slew rate controlled Soft-Start turn-on of 800µs (typical) to prevent in-rush current from glitching supply rails.

An active pull-down on the enable input keeps MIC94060-63 in a default OFF state until the EN pin is pulled to a high level. Built-in level shift circuitry allows low voltage logic signals to switch higher supply voltages, or vice versa; high level logic signals can control low level voltages.

MIC94060-63's operating voltage range makes them suitable for 1-cell Lithium ion and 2- to 3-cell NiMH/NiCad/Alkaline powered systems, as well as all 5V applications. Their low operating current of 2µA and low shutdown current of <1µA maximize battery life.

Features

1.7V to 5.5V input voltage range

2A continuous operating current

77mΩ (typ) RON

Built-in level shift for control logic; can be operated by 1.5V logic.

Low 2μA quiescent current

Soft-Start: MIC94062-63

Micro-power shutdown <1μA

Load discharge circuit: MIC94061, MIC94063

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

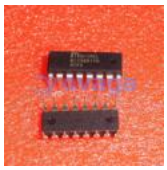
Microchip Technology, Inc

SOT-23-5

MIC5841YWM-TR

Microchip Technology, Inc

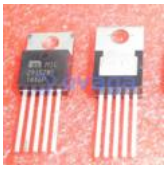
SOIC-18



MIC5891YN

Microchip Technology, Inc

PDIP-16



MIC29152WT

Microchip Technology, Inc

TO-220-5

MIC5209YM

Microchip Technology, Inc

SOIC-8