MIC94073YC6-TR

Data Sheet

Power Load Distribution Switch IC, Active High, 1 Output, 5.5 V in, 2 A, 0.12 ohm, SC-70-6

Manufacturers	Microchip Technology, Inc
Package/Case	SC-70-6
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for MIC94073YC6-TR or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The MIC94070-73 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 1.2A of continuous current. The MIC94071 and MIC94073 feature an active load discharge circuit which insures capacitive loads retain no charge when the main switch is in an OFF state.

MIC94070-71 feature rapid turn on while MIC94072-73 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 MIC94070-73 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.

MIC94070-73'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

1.2A continuous operating current

3A pulse current

120mΩ RDSON (typical)

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

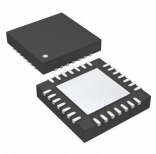
Low 2μA quiescent current

Soft-Start: MIC94072/73

Micro-power shutdown <1μA

Load discharge circuit: MIC94071, MIC94073

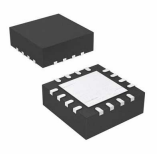
Related Products



MIC27600YJL-TR

Microchip Technology, Inc

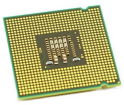
VQFN-28



MIC2127AYML-TR

Microchip Technology, Inc

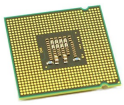
VQFN-16



DSC6001MI2B-027.0000T

Microchip Technology, Inc

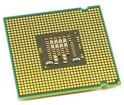
VLGA



DSC6101MI1B-050.0000T

Microchip Technology, Inc

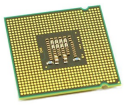
VLGA



DSC6111MI3B-025.0000T

Microchip Technology, Inc

VLGA



DSC6111MI2B-100.0000T

Microchip Technology, Inc

VLGA

DSC6101MI1B-024.0000T

Microchip Technology, Inc

VLGA

DSC6102MI3B-038.4000T

Microchip Technology, Inc

VLGA