

Power Load Distribution Switch IC, Active High, 1 Output, 5.5 V in, 900 mA, 0.17 ohm, SOT-23-6

Manufacturers	Microchip Technology, Inc
Package/Case	SOT-23-6
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC2009A-1YM6-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MIC20XX family of switches are current limiting, high-side power switches, designed for general purpose power distribution and control in digital televisions (DTV), printers, set top boxes (STB), PCs, PDAs, and other peripheral devices (see Functionality Table and Pin Configuration drawings) MIC20XX family's primary functions are current limiting and power switching. They are thermally protected and will shutdown should their internal temperature reach unsafe levels, protecting both the device and the load, under high current or fault conditions. Features include fault reporting, fault blanking to eliminate noise-induced false alarms, output slew rate limiting, under voltage detection, automatic-on output, and enable pin with choice of either active low or active high enable. The FET is self-contained, with a fixed- or user-adjustable current limit. The MIC20XX family is ideal for any system where current limiting and power control are desired. The MIC201X ($3 \leq x \leq 9$) and MIC2019A switches offer a unique new patented feature: Kickstart™, which allows momentary high-current surges up to the secondary current limit (ILIMIT_2nd) without sacrificing overall system safety. The MIC20XX family is offered, depending on the desired features, in a space-saving 5-pin SOT-23, and 6-pin SOT-23 packages.

Features

MIC20X3 - MIC20X9

MIC2005A/20X9A

170mΩ typical on-resistance @ 5V

Enable active high or active low

2.5V-5.5V operating range

Pre-set current limit values of 0.5A, 0.8A, and 1.2A*

Adjustable current limit 0.2A to 2.0A* (MIC20X7-MIC20X9)

Adjustable current limit 0.1A to 0.9A* (MIC20X9A)

Undervoltage lock-out (UVLO)

Variable UVLO allows adjustable UVLO thresholds*

Automatic load discharge for capacitive loads*

Soft-start prevents large current inrush

Adjustable slew rate allows custom slew rates*

Automatic-on output after fault

Thermal protection

UL recognized



Related Products



[MIC94325YMT-TR](#)

Microchip Technology, Inc
UDFN-6



[MIC4684YM](#)

Microchip Technology, Inc
SOIC-8



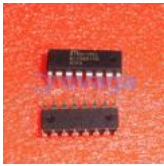
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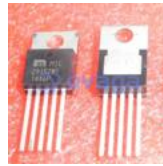
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