

Intelligent Power Switch, High Side MOSFET Switch, 50 (Min)mA, 1.8 → 5.5V 5-Pin, SOT-23

Manufacturers	Microchip Technology, Inc
Package/Case	SOT-23-5
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC2090-1YM5-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC2090 and MIC2091 are high-side MOSFET power switches optimized for general-purpose 50mA or 100mA low power distribution in circuits requiring over-current limiting and circuit protection. Typical applications for these parts are for switching power in USB ports, portable consumer items, camera and camcorder motor protection, thermal printer head protection, and many other low current-load switching applications. The MIC2090 and MIC2091 come in two versions: auto-retry current limit and output latch off on an over current fault. The MIC2090 and MIC2091 are offered in a space saving 5-pin SOT-23 package with an operating junction temperature range of -40°C to +125°C.

Features

1.8V to 5.5V supply voltage

790 m Ω typical RDSON at 3.3V

MIC2090 is rated for 50mA minimum continuous current

MIC2091 is rated for 100mA minimum continuous current

Reverse current blocking (OGI)

20ns super fast reaction time to hard short at output

10ms fault flag delay (tD_FAULT) eliminates false assertions

Auto-retry overcurrent and short-circuit protection (-1 version)

Latch-off on current limit (-2 version)

Thermal shutdown

Fault status flag indicates: over-current, over-temperature, or UVLO

Under-voltage lockout (UVLO)

Low quiescent current



Related Products



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UDFN-6



[MIC4684YM](#)

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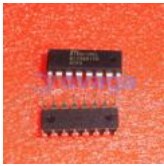
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SOT-23-6



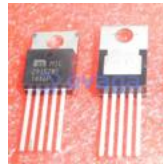
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[MIC2026-2YM](#)

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