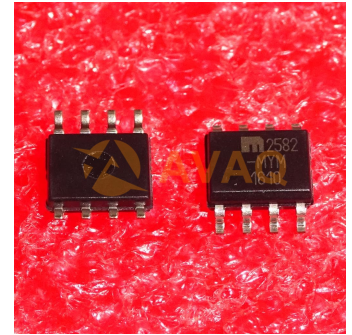


Hot Swap Controller 1-CH 13.2V N-Channel Positive Low Voltage 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MIC2582 and MIC2583 are single-channel positive voltage hot swap controllers designed to allow the safe insertion of boards into live system backplanes. The MIC2582 and MIC2583 are available in 8-pin SOIC and 16-pin QSOP packages, respectively. Using a few external components and by controlling the gate drive of an external N-Channel MOSFET device, the MIC2582/83 provide inrush current limiting and output voltage slew rate control in harsh, critical power supply environments. Additionally, a circuit breaker function will latch the output MOSFET off if the current-limit threshold is exceeded for a determined period. The MIC2583R option includes an auto-restart function upon detecting an over current condition.

Key Features

MIC2582: Pin-for-pin functional equivalent to the LTC1422

2.3V to 13.2V supply voltage operation

Surge voltage protection up to 20V

Current regulation limits inrush current regardless of load capacitance

Programmable inrush current limiting

Electronic circuit breaker

Optional dual-level overcurrent threshold detects excessive load faults

Fast response to short-circuit conditions (<1μs)

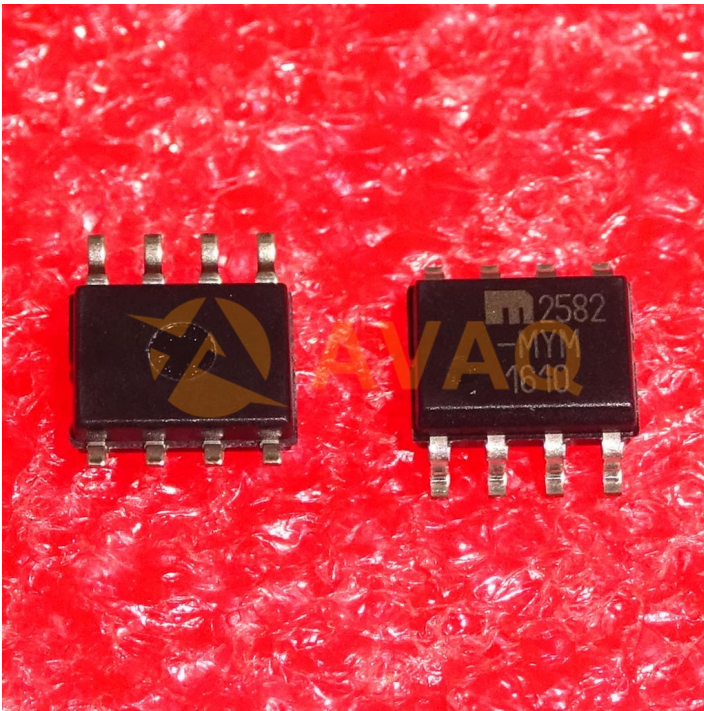
Programmable output undervoltage detection

Undervoltage Lockout (UVLO) protection

Auto-restart function (MIC2583R)

Power-on-Reset status output

Power good (PG) status output (MIC2583 and MIC2583R)



Recommended For You

MIC4451YN

Microchip Technology, Inc

DIP8

MIC4427YN

Microchip Technology, Inc

DIP8

MIC4427YM

Microchip Technology, Inc

SOP-8

MIC2954-02WS

Microchip Technology, Inc

SOT223

MIC2951-02YM

Microchip Technology, Inc

SOP-8

MIC4452ZT

Microchip Technology, Inc

TO-220-5

MIC5013YN

Microchip Technology, Inc

PDIP-8

MIC4224YM

Microchip Technology, Inc

SOP8

MIC4123YME

Microchip Technology, Inc

SOP-8

MIC2951-02YM-TR

Microchip Technology, Inc

SOIC-8

MIC4422ZM

Microchip Technology, Inc

SOP8

MIC49150WR

Microchip Technology, Inc

SPAK-5

MIC2506YM

Microchip Technology, Inc

SOP-8

MIC49300WR

Microchip Technology, Inc

S-PAK-5

MIC94082YFT-TR

Microchip Technology, Inc

TMLF-4