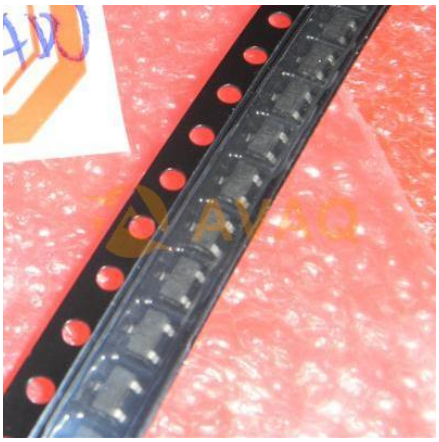
LM4041CIM3-ADJ

V-Ref Adjustable 1.24V to 10V 12mA 3-Pin SOT-23

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOT23-3
Product Type:	Power Management ICs
Lifecycle:	Obsolete



Images are for reference only

Inquiry

General Description

The LM4041 series of shunt voltage references are versatile, easy-to-use references suitable for a wide array of applications. They require no external capacitors for operation and are stable with all capacitive loads. Additionally, the reference offers low dynamic impedance, low noise, and a low temperature coefficient to ensure a stable output voltage over a wide range of operating currents and temperatures. The LM4041 uses fuse and Zener-zap reverse breakdown voltage trim during wafer sort to offer four output voltage tolerances, ranging from 0.1% (max) for the A grade to 1% (max) for the D grade. Thus, a great deal of flexibility is offered to designers in choosing the best cost-to-performance ratio for their applications. The LM4041 is available in a fixed (1.225 V nominal) or an adjustable version (which requires an external resistor divider to set the output to a value between 1.225 V and 10 V).
Packaged in space-saving SC-70 and SOT-23-3 and requiring a minimum current of 45 µA (typ), the LM4041 also is ideal for portable applications. The TO-92 package also is available for through-hole packaging needs. The LM4041xI is characterized for operation over an ambient temperature range of -40°C to 85°C. The LM4041xQ is characterized for operation over an ambient temperature range of -40°C to 125°C.

Key Features

1.225-V Fixed and Adjustable Outputs (1.225 V to 10 V)

Tight Output Tolerances and Low Temperature Coefficient

Max 0.1%, 100 ppm/°C — A Grade

Max 0.2%, 100 ppm/°C — B Grade

Max 0.5%, 100 ppm/°C — C Grade

Max 1.0%, 150 ppm/°C — D Grade

Low Output Noise . . . 20 µVRMS (Typ)

Wide Operating CurrentRange . . .45 µA (Typ) to 12 mA

Stable With All Capacitive Loads; No Output Capacitor Required

Available in

Industrial Temperature: -40°C to 85°C

Extended Temperature: -40°C to 125°C

Applications

Data-Acquisition Systems

Power Supplies and Power-Supply Monitors

Instrumentation and Test Equipment

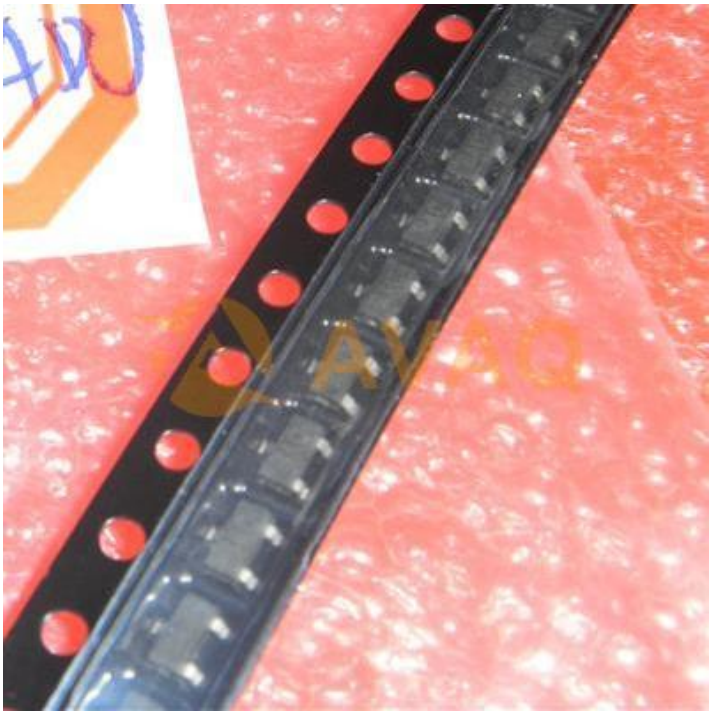
Process Control

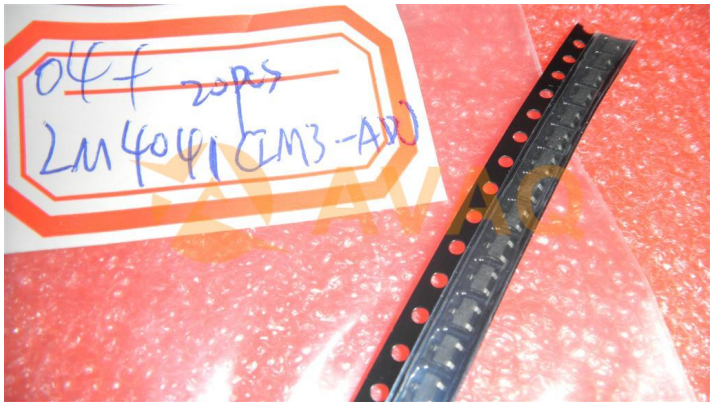
Precision Audio

Automotive Electronics

Energy Management/Metering

Battery-Powered Equipment





Recommended For You

LM2576-5.0WT

Microchip Technology, Inc

TO-220-5

LM4041AIM3-1.2

Microchip Technology, Inc

SOT23-3

LM2576WT

Microchip Technology, Inc

TO220-5

LM4041DIM3-ADJ

Microchip Technology, Inc

SOT23-3

LM2575-5.0YN

Microchip Technology, Inc

PDIP-16

LM2574-12YN

Microchip Technology, Inc

PDIP

MIC4451YN

Microchip Technology, Inc

DIP8

TC7660COA

Microchip Technology, Inc

SOP8

MIC4427YN

Microchip Technology, Inc

DIP8

PD69012

Microchip Technology, Inc

QFP

TC54VC3002ECB713

Microchip Technology, Inc

SOT-23

TC4428ACOA

Microchip Technology, Inc

SOP8

TC429CPA

Microchip Technology, Inc

DIP8

TC4420EPA

Microchip Technology, Inc

DIP8

TC1232CPA

Microchip Technology, Inc

DIP8