
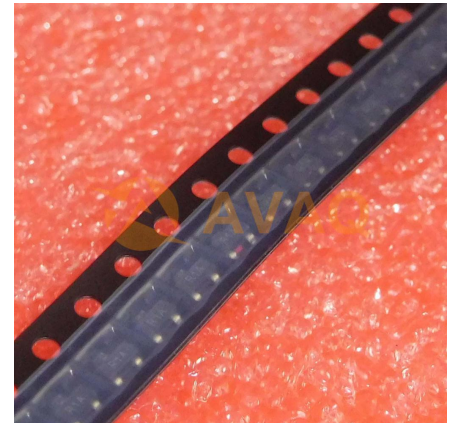


V-Ref Precision 1.225V 12mA 3-Pin SOT-23 T/R

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	SOT-23
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

Ideal for space-critical applications, the LM4041-N precision voltage reference is available in the sub-miniature SC70 and SOT-23 surface-mount packages. The advanced design of the LM4041-N eliminates the need for an external stabilizing capacitor while ensuring stability with any capacitive load, thus making the LM4041-N easy to use. Further reducing design effort is the availability of a fixed (1.225 V) and adjustable reverse breakdown voltage. The minimum operating current is 60 μ A for the LM4041-N 1.2 and the LM4041-N ADJ. Both versions have a maximum operating current of 12 mA. The LM4041-N uses fuse and Zener-zap reverse breakdown or reference voltage trim during wafer sort to ensure that the prime parts have an accuracy of better than $\pm 0.1\%$ (A grade) at 25°C. Bandgap reference temperature drift curvature correction and low dynamic impedance ensure stable reverse breakdown voltage accuracy over a wide range of operating temperatures and currents.

Key Features

Qualified for Automotive Applications

SEC-Q100 Qualified With the Following Results:

Device Temperature Grade 1: -40°C to $+125^{\circ}\text{C}$ Ambient Temperature Range

Device Temperature Grade 3: -40°C to $+85^{\circ}\text{C}$ Ambient Temperature Range (For SOT-23 Only)

Available in Standard, AEC Q-100 Grade 1 (Extended Temperature Range), and Grade 3 (Industrial Temperature Range) Qualified Versions (SOT-23 Only)

Small Packages: SOT-23, TO-92, and SC70

No Output Capacitor Required

Tolerates Capacitive Loads

Reverse Breakdown Voltage Options of 1.225 V and Adjustable

Output Voltage Tolerance (A grade, 25°C) = $\pm 0.1\%$ (Maximum)

Low Output Noise (10 Hz to 10kHz) = $20 \mu\text{V}_{\text{rms}}$

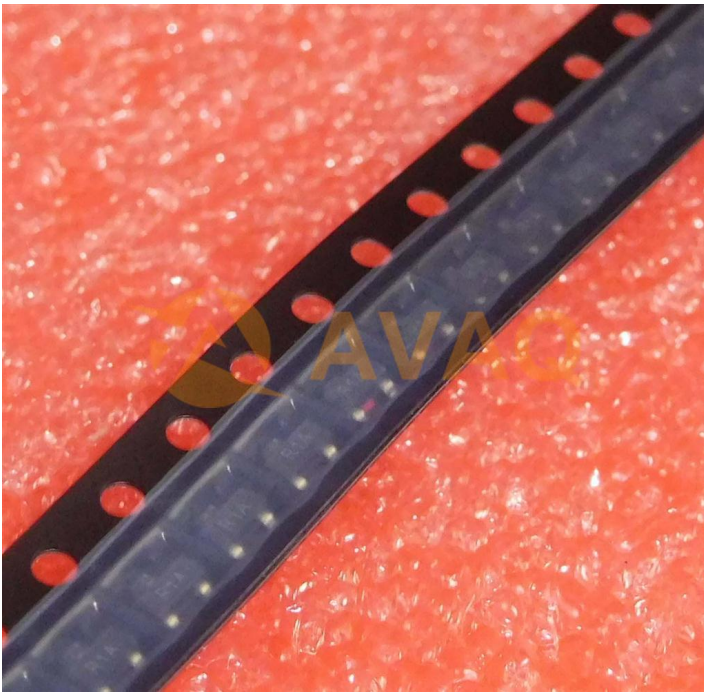
Wide Operating Current Range of $60 \mu\text{A}$ to 12 mA

Industrial Temperature Range (LM4041A/B-N, LM4041-N-Q1A/Q1B) of -40°C to $+85^{\circ}\text{C}$

Extended Temperature Range (LM4041C/D/E-N, LM4041-N-Q1C/Q1D/Q1E) of -40°C to $+125^{\circ}\text{C}$

Low Temperature Coefficient of 100 ppm/ $^{\circ}\text{C}$

(Maximum)



Recommended For You

LM2637M

Texas Instruments, Inc
SOP24

LM5116MH

Texas Instruments, Inc
TSSOP20

LM234Z-3

Texas Instruments, Inc
TO-92

LM27761DSGR

Texas Instruments, Inc
WSO8

LM74700QDBVRQ1

Texas Instruments, Inc
SOT23-6

LM2991S

Texas Instruments, Inc
TO-263

LM74800QDRRRQ1

Texas Instruments, Inc
WSO8-12

LMR14030SDDAR

Texas Instruments, Inc
SOP8

LM2940CT-12

Texas Instruments, Inc
TO-220

LM536035QPWPTQ1

Texas Instruments, Inc
HTSSOP-16

LM5575MH

Texas Instruments, Inc
TSSOP16

LM536013QDSXTQ1

Texas Instruments, Inc
WSO8-10

LM5160QPWPRQ1

Texas Instruments, Inc
HTSSOP14

LM5576MH

Texas Instruments, Inc
TSSOP20

LMQ61460AFSQRJRRQ1

Texas Instruments, Inc
VQFN-14