DIODES INCORPORATED

New Product Announcement

LM4041 shunt reference family in SOT23 and SC70-5 packages with extended industrial temperature range: in 1.225V and adjustable

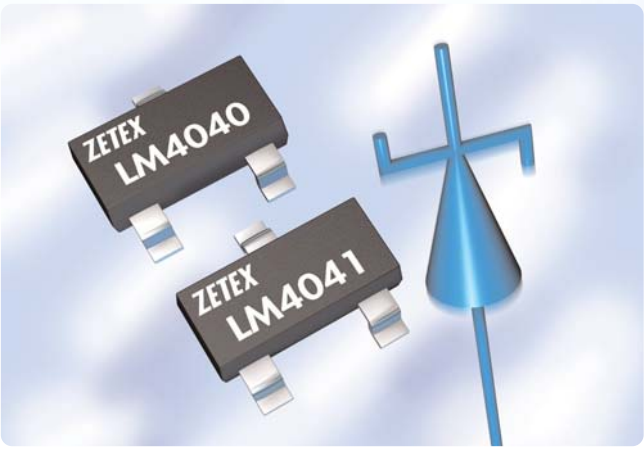
Description

The LM4041 is available in two variants: a fixed 1.225V part (with 2 active terminals) and an adjustable 3-terminal shunt references offering excellent temperature stability and output current handling capability up to 15mA.

The LM4041 in 1.225V is available in C-grade in SOT23 and in D-grade (1%) in SOT70-5 and SOT23. The adjustable variant is available in SOT23 and SC70-5 in D-grade.

Both cover the -40°C to 125°C temperature range as standard.

To support automotive applications the LM4041 has been qualified to meet AEC-Q100 standard.



The Diodes advantage

The LM4041 provides a drop-in replacement for industry standard LM4041 devices

- **Wide temperature range: -40°C to 125°C**
  Simplifies component choice and stocking
- **0.5% and 1% tolerance references as standard**
  Focusing on tolerances that are required for modern systems
- **Form fit function industry standard replacement**
  Simplifies component choice and stocking
- **Available now in SOT23 and SC70-5**
  Small cost effective surface mount options.
- **Qualified to AEC-Q100**
  Simplifies design into automotive applications

Circuit functions

- Precision reference for DC-DC converters
- Precision reference for instrumentation
- Precision reference for improved accuracy linear regulators

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Diodes shunt regulator family

Part number	Band-gap voltage V	Intial tol (%)	Minimum operation current (V)	Operating current range (mA)	Temperature drift (ppm/°C)	Noise (µVRMS)	Reference deviation with temperature (mV)	Package
LM4041C	1.225	0.5	60	15	100	20	-40 to 125	SOT23
LM4041D		1	65		150			SOT23 SC70-5
LM4041DADJ		1	65		150			SOT23 SC70-5
ZXRE125C	1.22	0.5	8	20	75	60	-40 to 85	SOT23
ZXRE125D		1						SOT23

To find out more information:

Product page http://www.diodes.com/products/catalog/detail.php?item-id=1689
Datasheet http://www.diodes.com/datasheets/LM4041.pdf

Ordering information

Order code	25°C tol	Voltage	Pack	Part Mark	Reel size	Tape width	Quantity per Reel
LM4041CFTA	0.5%	1.225	SOT23	R1C	7″ 180mm	8mm	3000
LM4041DFTA	1%	1.225	SOT23	R1D	7″ 180mm	8mm	3000
LM4041DH5TA			SC70	R1D	7″ 180mm	8mm	3000
LM4041DADJFTA		ADj	SOT23	RAD	7″ 180mm	8mm	3000
LM4041DADJH5TA			SC70	RAD	7″ 180mm	8mm	3000

All variants are in packages that are "Green" Molding Compound (No Br, Sb) with Lead Free Finish/RoHS Compliant (Note 1)

Notes: 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.