



THE DATASHEET OF LM4040C50FTA



Description

The LM4040 is a family of bandgap circuits designed to achieve precision micro-power voltage references of 2.5V, 3.0V, 3.3V, 4.096V, and 5.0V. The devices are available in 0.2% B-grade, 0.5% C-grade, and 1% D-grade initial tolerances.

They are available in small outline SOT23 surface mount packages, which are ideal for applications where space is at a premium.

Excellent performance is maintained over the 60µA to 15mA operating current range with a typical temperature coefficient of only 20ppm/°C. The device is designed to be highly tolerant of capacitive loads, which maintains excellent stability.

This device offers a pin for pin compatible alternative to the LM4040 voltage reference.

Features

- Small Package: SOT23
 - SC70-5 Variants Are End of Life (EOL)
- No Output Capacitor Required
- Output Voltage Tolerance
 - LM4040B: ±0.2% at +25°C
 - LM4040C : ±0.5% at +25°C
 - LM4040D: ±1% at +25°C
- Low Output Noise
- (10Hz to 10kHz) 45µV_{RMS}
- Wide Operating Current Range 60µA to 15mA
- Extended Temperature Range -40°C to +125°C
- Low Temperature Coefficient 100 ppm/°C (max)
- Green Molding in Small Package SOT23
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**
- **An Automotive-Compliant Part is Available Under Separate Datasheet ([LM4040Q](#))**

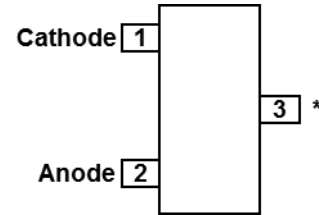
Applications

- Battery Powered Equipment
- Precision Power Supplies
- Portable Instrumentation
- Portable Communications Devices
- Notebook and Palmtop Computers
- Data Acquisition Systems

Notes: 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
 2. See <https://www.diodes.com/quality/lead-free/> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Assignments

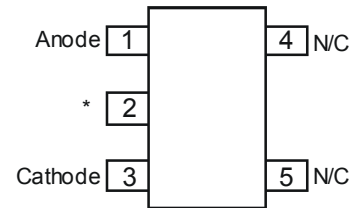
(Top View)



* Pin 3 must be left floating or connected to pin 2

SOT23

(Top View)



SC70-5**

* Pin 2 must be left floating or connected to pin 1.

** SC70-5 variants are End of Life (EOL).

Absolute Maximum Ratings (Voltages to Anode Unless Otherwise Stated)

Parameter	Rating	Unit
Continuous Reverse Current	20	mA
Continuous Forward Current	10	mA
Operating Junction Temperature	-40 to +150	°C
Storage Temperature	-55 to +150	°C

Caution: Stresses greater than the *Absolute Maximum Ratings* specified above, may cause permanent damage to the device. These are stress ratings only; functional operation of the device at conditions between maximum recommended operating conditions and absolute maximum ratings is not implied. Device reliability may be affected by exposure to absolute maximum rating conditions for extended periods of time.

(Semiconductor devices are ESD sensitive and may be damaged by exposure to ESD events. Suitable ESD precautions should be taken when handling and transporting these devices.)

Unless otherwise stated voltages specified are relative to the Anode pin.

Package Thermal Data

Package	θ_{JA}	P_{Dis} $T_A = +25^\circ C, T_J = +125^\circ C$
SOT23	380°C/W	330mW

Recommended Operating Conditions

Parameter	Min	Max	Unit
Reverse Current	0.06	15	mA
Operating Ambient Temperature Range	-40	+125	°C

Electrical Characteristics (Test conditions: $T_A = +25^\circ C$, unless otherwise specified.)

LM4040-25

Symbol	Parameter	Conditions		Typ	LM4040 B Limits	LM4040 C Limits	LM4040 D Limits	Unit
		—	T_A					
V_{REF}	Reverse Breakdown Voltage	$I_R = 100\mu A$	+25°C	2.5	—	—	—	V
	Reverse Breakdown Voltage Tolerance	$I_R = 100\mu A$	+25°C -40 to +85°C -40 to +125°C	—	±5 ±21 ±30	±12 ±29 ±38	±25 ±49 ±63	mV
I_{RMIN}	Minimum Operating Current	—	+25°C	45	60	60	65	μA
			-40 to +85°C	—	65	65	70	
			-40 to +125°C	—	68	68	73	
$\Delta V_R/\Delta T$	Average Reverse Breakdown Voltage Temperature Coefficient	$I_R = 10mA$	-40 to +125°C	±20	—	—	—	ppm/°C
		$I_R = 1mA$		±15	±100	±100	±150	
		$I_R = 100\mu A$		±15	—	—	—	
$\Delta V_R/\Delta I_R$	Reverse Breakdown Change with Current	$I_{RMIN} \leq I_R \leq 1mA$	+25°C	0.3	0.8	0.8	1.0	mV
			-40 to +85°C	—	1.0	1.0	1.2	
			-40 to +125°C	—	1.0	1.0	1.2	
		$1mA \leq I_R \leq 15mA$	+25°C	2.5	6.0	6.0	8.0	
			-40 to +85°C	—	8.0	8.0	10.0	
			-40 to +125°C	—	8.0	8.0	10.0	
Z_R	Dynamic Output Impedance	$I_R = 1mA, f = 120Hz$ $I_{AC} = 0.1I_R$		0.3	0.8	0.9	1.1	Ω
e_n	Noise Voltage	$I_R = 100\mu A$ 10Hz < f < 10kHz		35	—	—	—	μV _{RMS}
V_R	Long Term Stability (Non Cumulative)	t = 1000Hrs, $I_R = 100\mu A$		120	—	—	—	ppm
V_{HYST}	Thermal Hysteresis	$\Delta T = -40^\circ C$ to $+125^\circ C$		0.08	—	—	—	%

Electrical Characteristics (continued) (Test conditions: $T_A = +25^\circ\text{C}$, unless otherwise specified.)

LM4040-30

Symbol	Parameter	Conditions		Typ	LM4040 B Limits	LM4040 C Limits	LM4040 D Limits	Unit	
		—	T_A						
V_{REF}	Reverse Breakdown Voltage	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$	3.0	—	—	—	V	
	Reverse Breakdown Voltage Tolerance	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$ -40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	± 6 ± 26 37	± 15 ± 34 ± 45	± 30 ± 59 ± 75	mV	
I_{RMIN}	Minimum Operating Current	—	$+25^\circ\text{C}$	47	62	62	67	μA	
			-40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	67 70	67 70	72 75		
$\Delta V_R/\Delta T$	Average Reverse Breakdown Voltage Temperature Coefficient	$I_R = 10\text{mA}$	-40 to $+125^\circ\text{C}$	± 20	—	—	—	ppm/ $^\circ\text{C}$	
		$I_R = 1\text{mA}$		± 15	± 100	± 100	± 150		
		$I_R = 100\mu\text{A}$		± 15	—	—	—		
$\Delta V_R/\Delta I_R$	Reverse Breakdown Change with Current	$I_{RMIN} \leq I_R \leq 1\text{mA}$	$+25^\circ\text{C}$	0.4	0.8	0.8	1.0	mV	
			-40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	1.1 1.1	1.1 1.1	1.3 1.3		
			$1\text{mA} \leq I_R \leq 15\text{mA}$	$+25^\circ\text{C}$	2.7	6.0	6.0		8.0
		-40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	9.0 9.0	9.0 9.0	11.0 11.0			
		Dynamic Output Impedance	$I_R = 1\text{mA}$, $f = 120\text{Hz}$ $I_{AC} = 0.1I_R$	0.4	0.9	0.9	1.2		Ω
				$I_R = 100\mu\text{A}$ $10\text{Hz} < f < 10\text{kHz}$	35	—	—		—
V_R	Long Term Stability (Non-Cumulative)	$t = 1000\text{Hrs}$, $I_R = 100\mu\text{A}$	120	—	—	—	ppm		
V_{HYST}	Thermal Hysteresis	$\Delta T = -40^\circ\text{C}$ to $+125^\circ\text{C}$	0.08	—	—	—	%		

Electrical Characteristics (cont.) (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

LM4040-33

Symbol	Parameter	Conditions		Typ	B Limits	C Limits	D Limits	Units	
		—	T_A						
V_{REF}	Reverse Breakdown Voltage	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$	3.3	—	—	—	V	
	Reverse Breakdown Voltage Tolerance	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$ -40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	± 6.6 ± 28 ± 40	± 16.5 ± 38 ± 50	± 33 ± 65 ± 83	mV	
I_{RMIN}	Minimum Operating Current	—	$+25^\circ\text{C}$	47	62	62	67	μA	
			-40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	67 70	67 70	72 75		
$\Delta V_R/\Delta T$	Average Reverse Breakdown Voltage Temperature Coefficient	$I_R = 10\text{mA}$	-40 to $+125^\circ\text{C}$	± 20	—	—	—	ppm/ $^\circ\text{C}$	
		$I_R = 1\text{mA}$		± 15	± 100	± 100	± 150		
		$I_R = 100\mu\text{A}$		± 15	—	—	—		
$\Delta V_R/\Delta I_R$	Reverse Breakdown Change With Current	$I_{RMIN} < I_R < 1\text{mA}$	$+25^\circ\text{C}$	0.4	0.8	0.8	1	mV	
			-40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	1.1 1.1	1.1 1.1	1.3 1.3		
			$1\text{mA} < I_R < 15\text{mA}$	$+25^\circ\text{C}$	2.7	6	6		8
		-40 to $+85^\circ\text{C}$ -40 to $+125^\circ\text{C}$	—	9.0 9.0	9	9	11 11		
		Dynamic Output Impedance	$I_R = 1\text{mA}$, $f = 120\text{Hz}$, $I_{AC} = 0.1I_R$	0.4	0.9	0.9	1.2		Ω
				$I_R = 100\mu\text{A}$, $10\text{Hz} < f < 10\text{kHz}$	35	—	—		—
V_R	Long Term Stability (Non-Cumulative)	$t = 1000\text{Hrs}$, $I_R = 100\mu\text{A}$	120	—	—	—	ppm		
V_{HYST}	Thermal Hysteresis	$\Delta T = -40^\circ\text{C}$ to $+125^\circ\text{C}$	0.08	—	—	—	%		

Electrical Characteristics (cont.) (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

LM4040-41

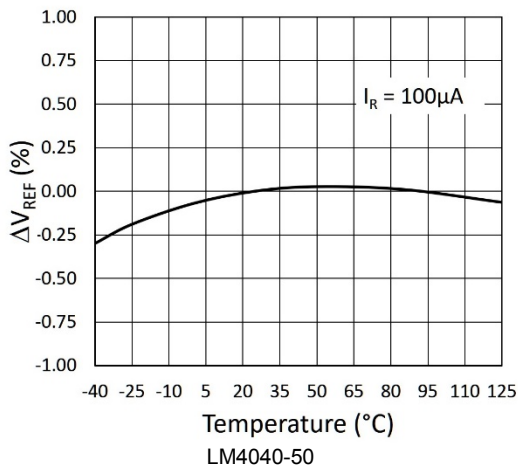
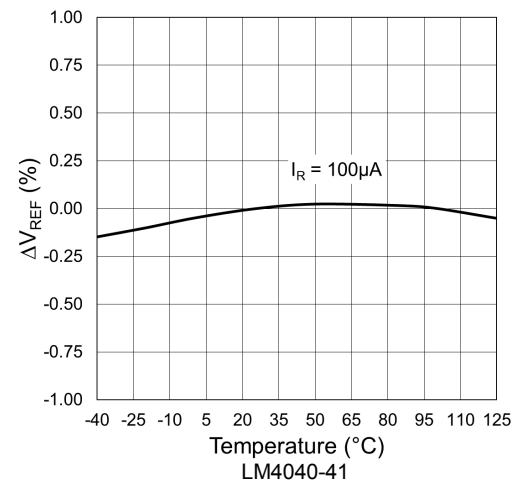
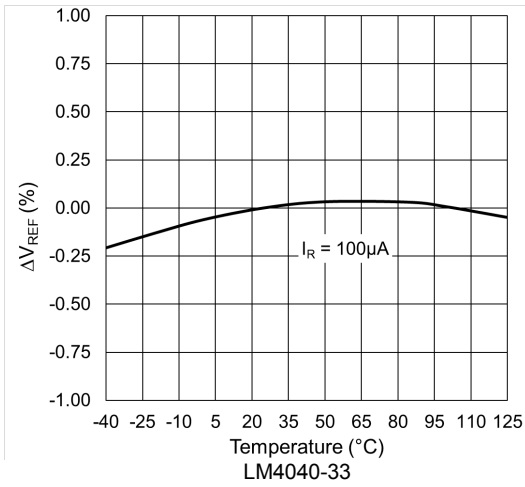
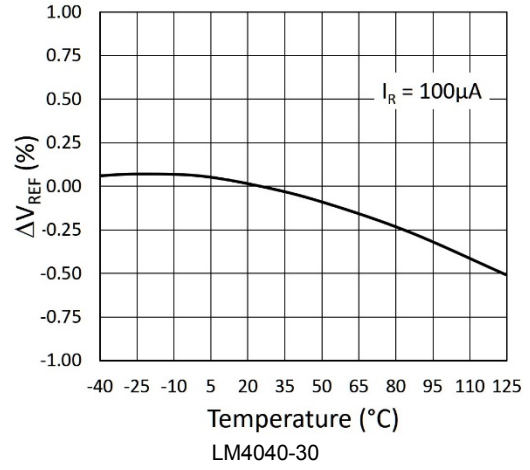
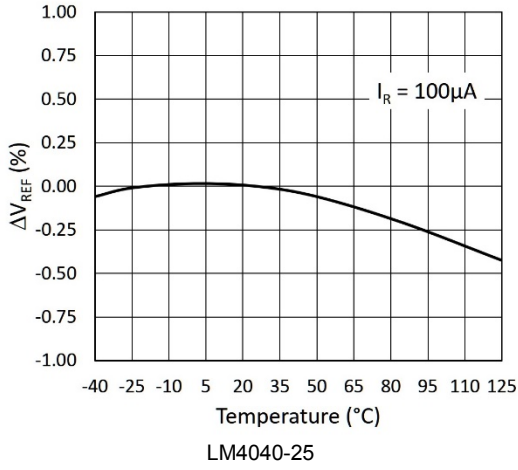
Symbol	Parameter	Conditions		Typ	B Limits	C Limits	D Limits	Units
			T_A					
V_{REF}	Reverse Breakdown Voltage	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$	4.096	—	—	—	V
	Reverse Breakdown Voltage Tolerance	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$	—	± 8.2	± 20	± 41	mV
			-40 to $+85^\circ\text{C}$		± 35	± 47	± 81	
-40 to $+125^\circ\text{C}$	± 49	± 60	± 102					
I_{RMIN}	Minimum Operating Current	—	$+25^\circ\text{C}$	50	83	83	83	μA
			-40 to $+85^\circ\text{C}$	—	88	88	88	
			-40 to $+125^\circ\text{C}$	—	88	88	88	
$\Delta V_R/\Delta T$	Average Reverse Breakdown Voltage Temperature Coefficient	$I_R = 10\text{mA}$	-40 to $+125^\circ\text{C}$	± 30	—	—	—	—
		$I_R = 1\text{mA}$		± 20	± 100	± 100	± 150	$\text{ppm}/^\circ\text{C}$
		$I_R = 100\mu\text{A}$		± 20	—	—	—	—
$\Delta V_R/\Delta I_R$	Reverse Breakdown Change With Current	$I_{RMIN} < I_R < 1\text{mA}$	$+25^\circ\text{C}$	0.5	0.9	0.9	1.2	mV
			-40 to $+85^\circ\text{C}$	—	1.2	1.2	1.5	
			-40 to $+125^\circ\text{C}$	—	1.2	1.2	1.5	
		$1\text{mA} < I_R < 15\text{mA}$	$+25^\circ\text{C}$	3	7	7	9	
			-40 to $+85^\circ\text{C}$	—	10	10	13	
			-40 to $+125^\circ\text{C}$	—	10	10	13	
Z_R	Dynamic Output Impedance	$I_R = 1\text{mA}$, $f = 120\text{Hz}$, $I_{AC} = 0.1I_R$		0.5	1	1	1.3	Ω
e_n	Noise Voltage	$I_R = 100\mu\text{A}$, $10\text{Hz} < f < 10\text{kHz}$		64	—	—	—	μV_{RMS}
V_R	Long Term Stability (Non-Cumulative)	$t = 1000\text{Hrs}$, $I_R = 100\mu\text{A}$		120	—	—	—	ppm
V_{HYST}	Thermal Hysteresis	$\Delta T = -40^\circ\text{C}$ to $+125^\circ\text{C}$		0.08	80	—	—	%

Electrical Characteristics (cont.) (Test conditions: $T_A = +25^\circ\text{C}$, unless otherwise specified.)

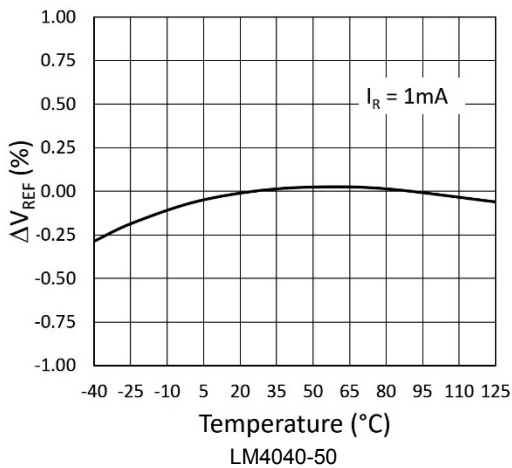
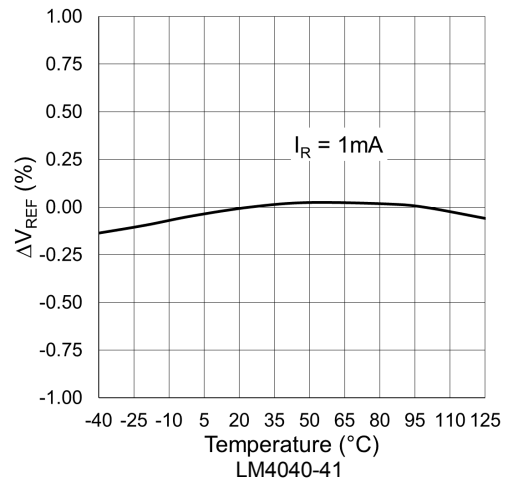
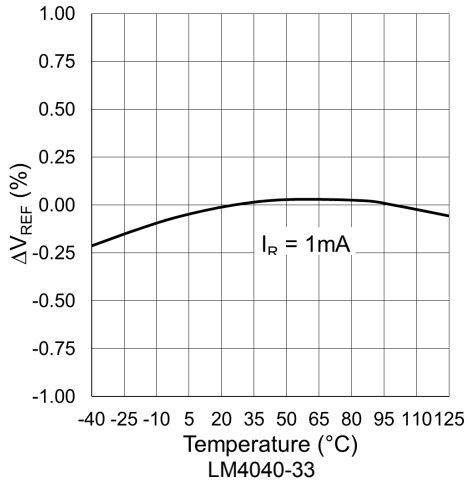
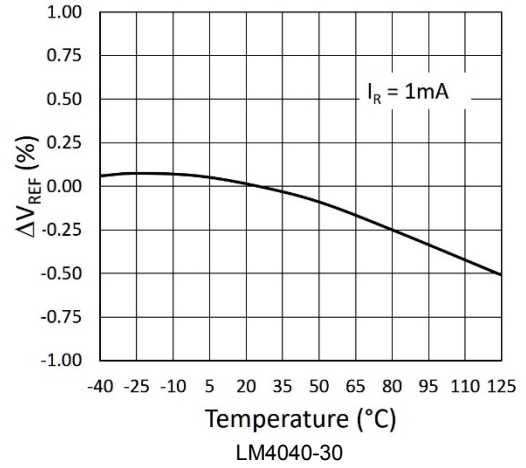
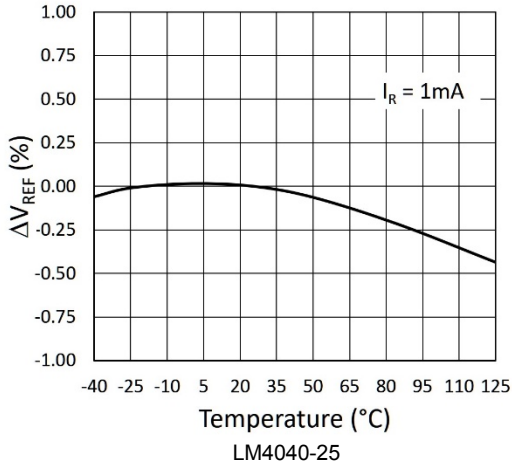
LM4040-50

Symbol	Parameter	Conditions		Typ	LM4040 B Limits	LM4040 C Limits	LM4040 D Limits	Units
			T_A					
V_{REF}	Reverse Breakdown Voltage	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$	5.0	—	—	—	V
	Reverse Breakdown Voltage Tolerance	$I_R = 100\mu\text{A}$	$+25^\circ\text{C}$	—	± 10	± 25	± 50	mV
			-40 to $+85^\circ\text{C}$		± 43	± 58	± 99	
-40 to $+125^\circ\text{C}$	± 60	± 75	± 125					
I_{RMIN}	Minimum Operating Current	—	$+25^\circ\text{C}$	54	74	74	79	μA
			-40 to $+85^\circ\text{C}$	—	80	80	85	
			-40 to $+125^\circ\text{C}$	—	83	83	88	
$\Delta V_R/\Delta T$	Average Reverse Breakdown Voltage Temperature Coefficient	$I_R = 10\text{mA}$	-40 to $+125^\circ\text{C}$	± 30	—	—	—	$\text{ppm}/^\circ\text{C}$
		$I_R = 1\text{mA}$		± 20	± 100	± 100	± 150	
		$I_R = 100\mu\text{A}$		± 20	—	—	—	
$\Delta V_R/\Delta I_R$	Reverse Breakdown Change with Current	$I_{RMIN} \leq I_R \leq 1\text{mA}$	$+25^\circ\text{C}$	0.5	1.0	1.0	1.3	mV
			-40 to $+85^\circ\text{C}$	—	1.4	1.4	1.8	
			-40 to $+125^\circ\text{C}$	—	1.4	1.4	1.8	
		$1\text{mA} \leq I_R \leq 15\text{mA}$	$+25^\circ\text{C}$	3.5	8.0	8.0	10.0	
			-40 to $+85^\circ\text{C}$	—	12.0	12.0	15.0	
			-40 to $+125^\circ\text{C}$	—	12.0	12.0	15.0	
Z_R	Dynamic Output Impedance	$I_R = 1\text{mA}$, $f = 120\text{Hz}$, $I_{AC} = 0.1I_R$		0.5	1.1	1.1	1.5	Ω
e_n	Noise Voltage	$I_R = 100\mu\text{A}$, $10\text{Hz} < f < 10\text{kHz}$		80	—	—	—	μV_{RMS}
V_R	Long Term Stability (Non-Cumulative)	$t = 1000\text{Hrs}$, $I_R = 100\mu\text{A}$		120	—	—	—	ppm
V_{HYST}	Thermal Hysteresis	$\Delta T = -40^\circ\text{C}$ to $+125^\circ\text{C}$		0.08	—	—	—	%

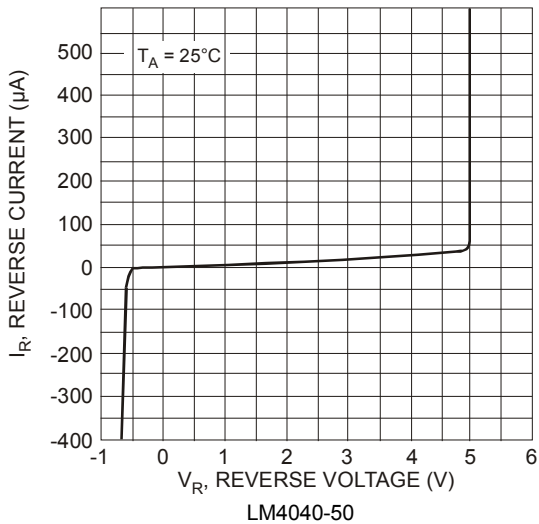
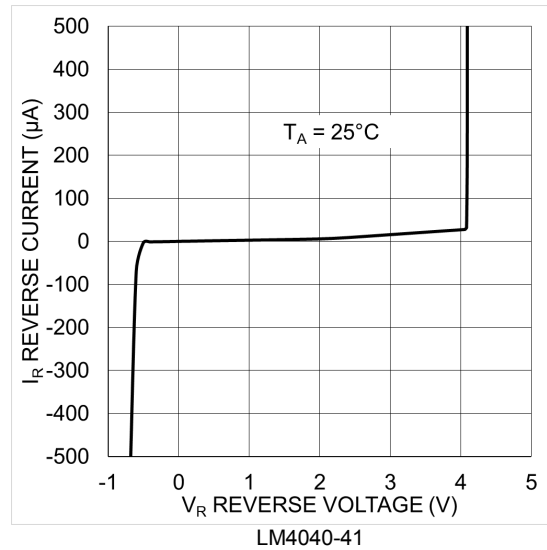
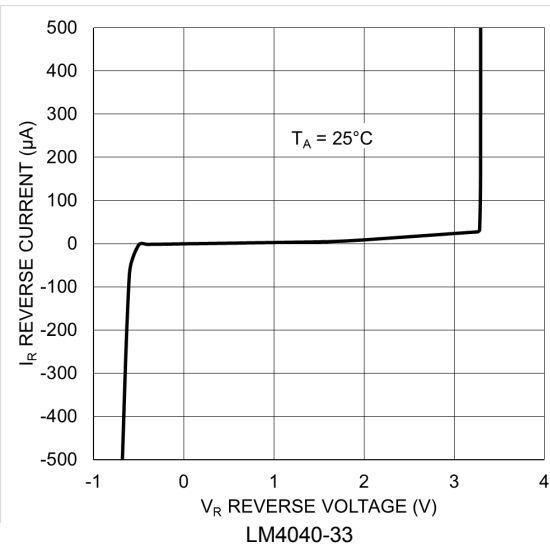
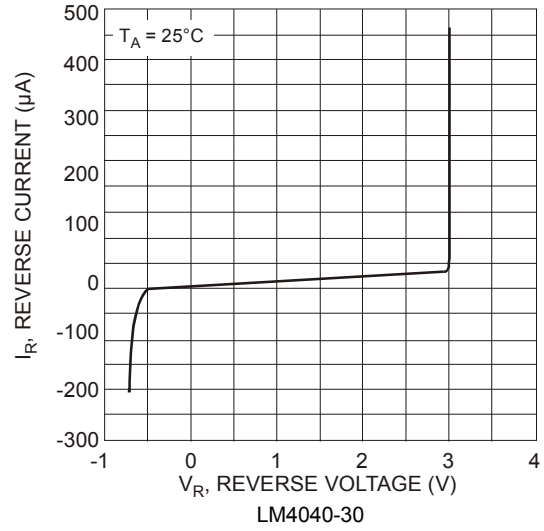
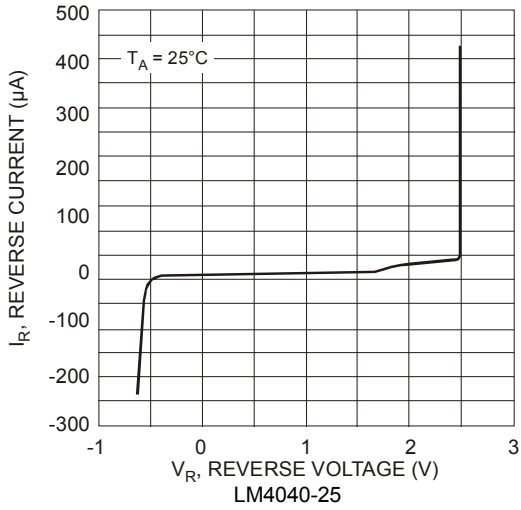
Typical Characteristics – Reference Voltage Temperature Coefficient at 100 μ A



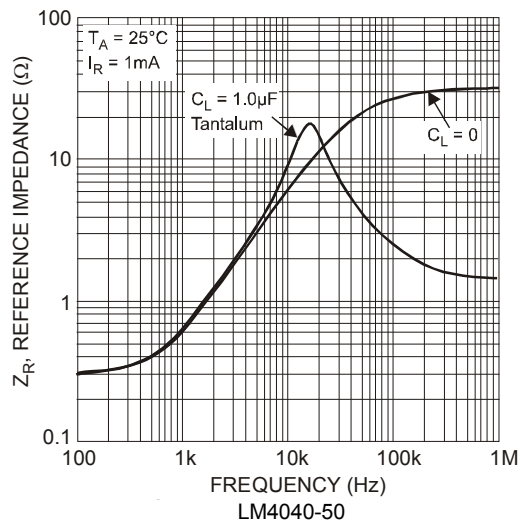
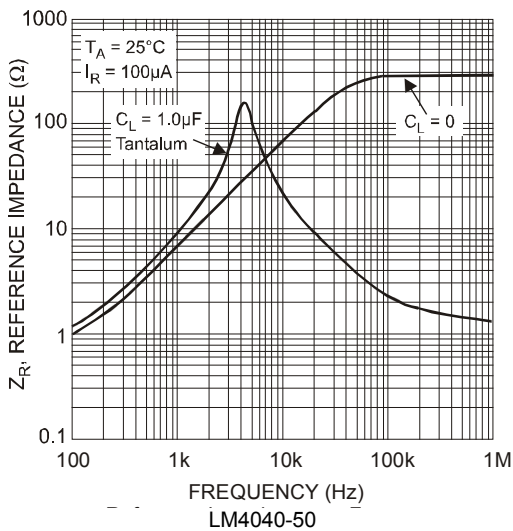
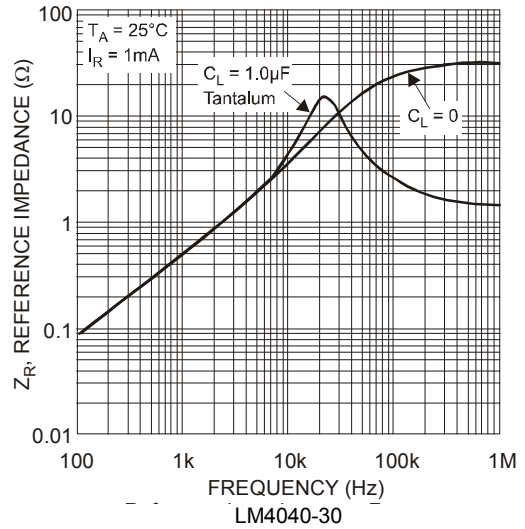
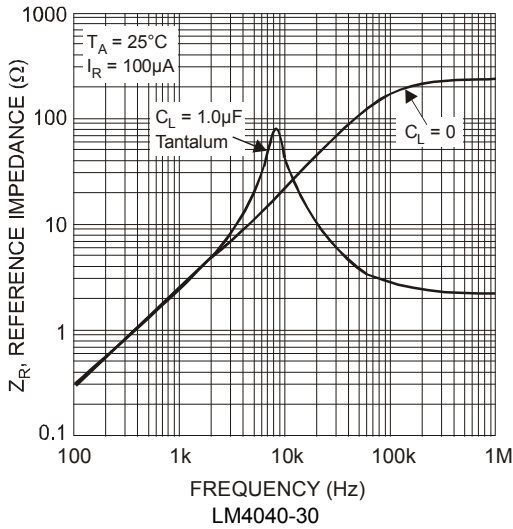
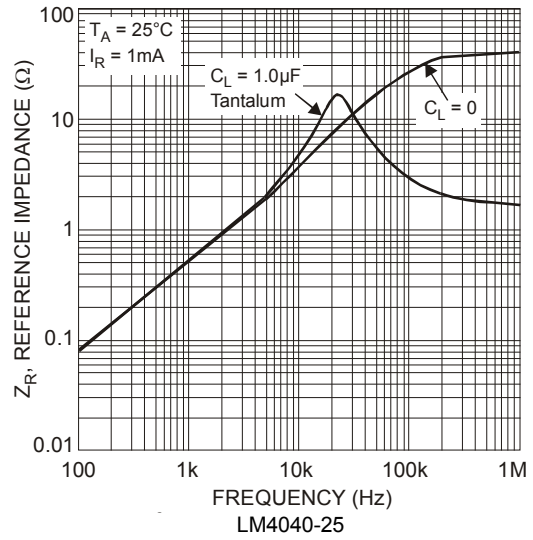
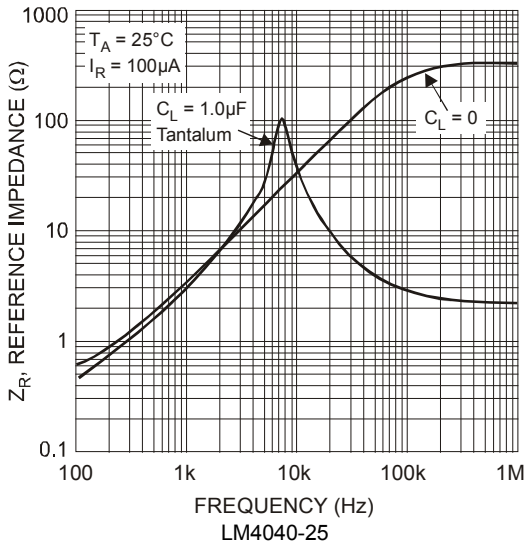
Typical Characteristics – Reference Voltage Temperature Coefficient at 1mA



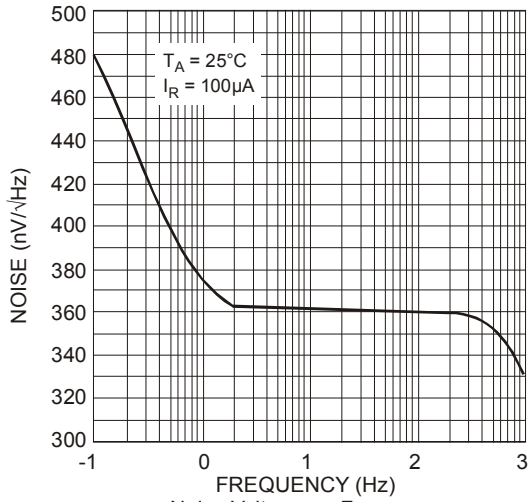
Typical Characteristics – Reverse Characteristics



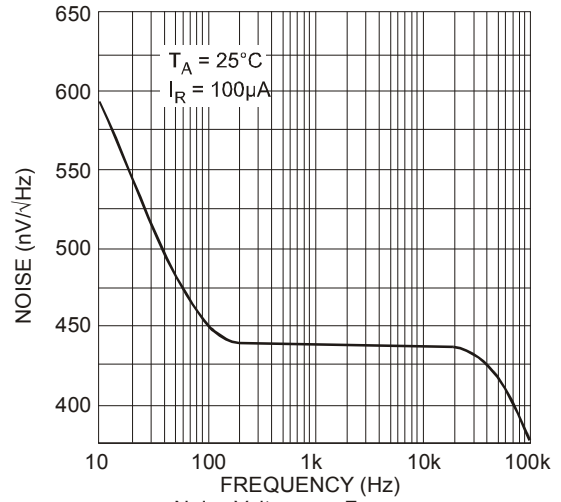
Typical Characteristics LM4040Q Reference Impedance



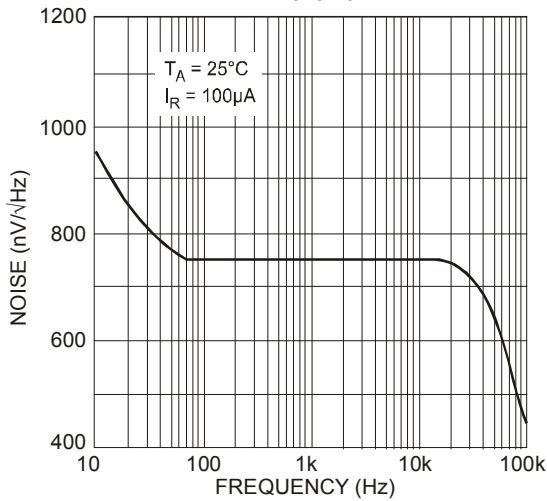
Typical Characteristics LM4040Q Noise Characteristics



Noise Voltage vs. Frequency
LM4040-25

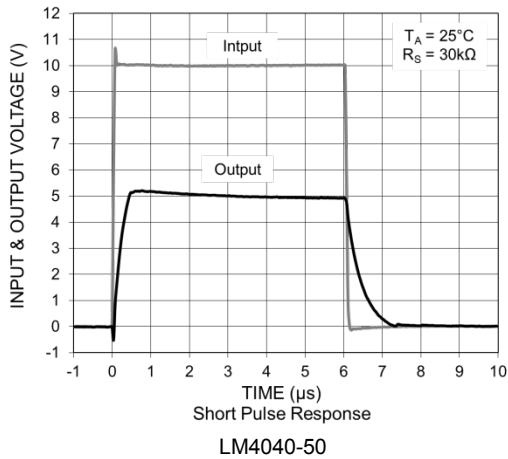
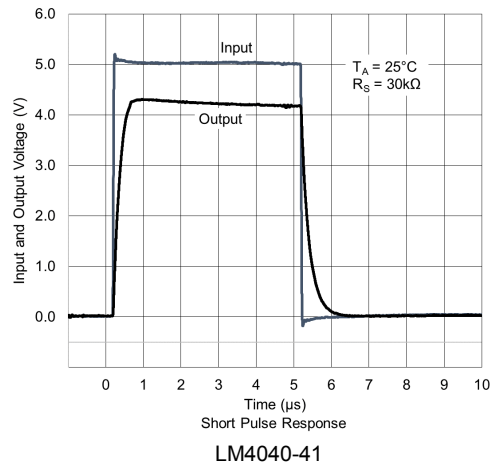
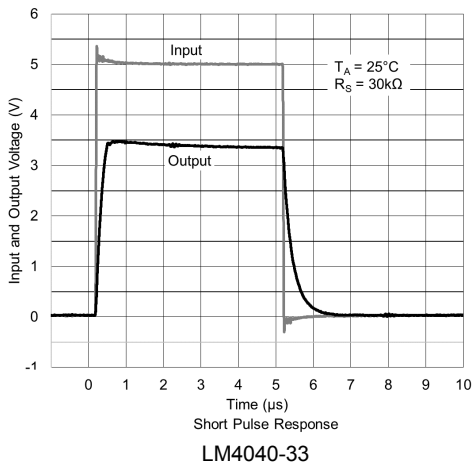
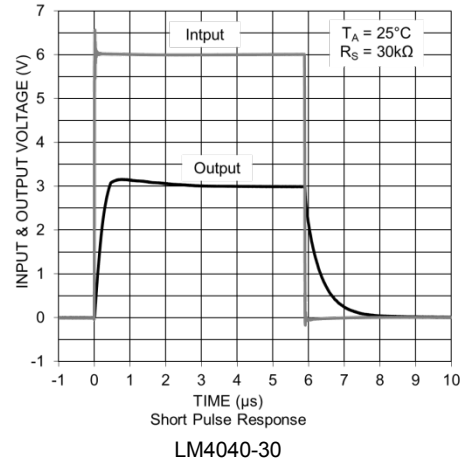
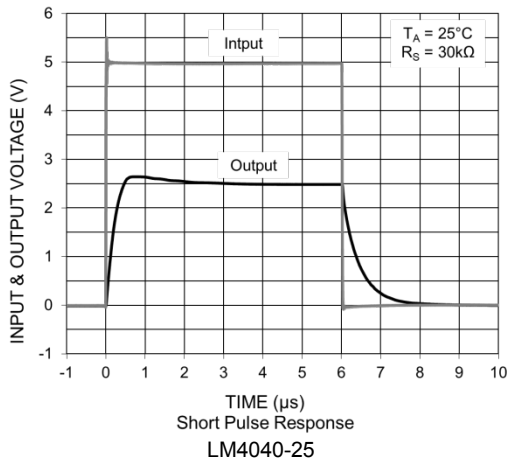


Noise Voltage vs. Frequency
LM4040-30

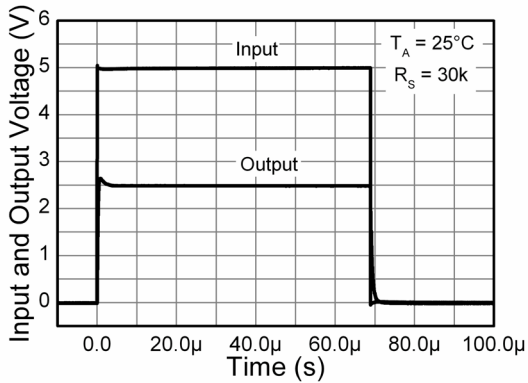


Noise Voltage vs. Frequency
LM4040-50

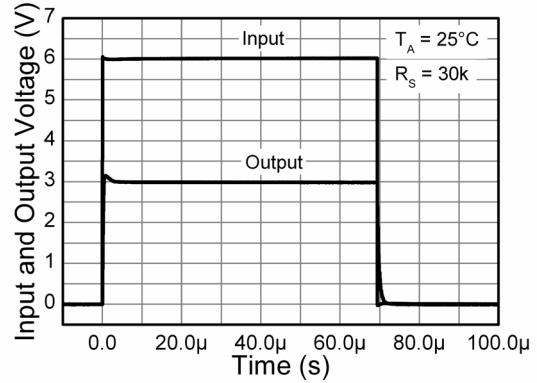
Start Up Characteristics LM4040Q Short Pulse



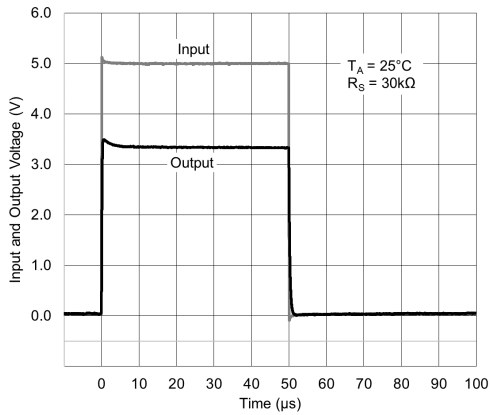
Start Up Characteristics LM4040Q Long Pulse



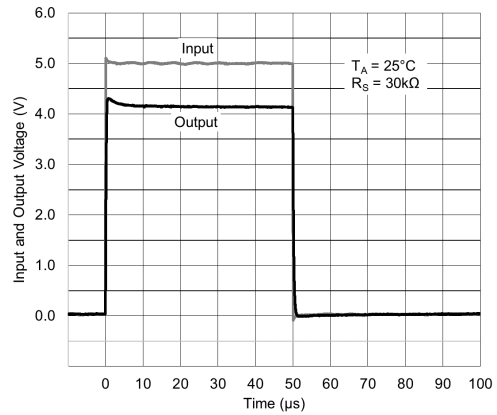
Long Pulse Response
LM4040-25



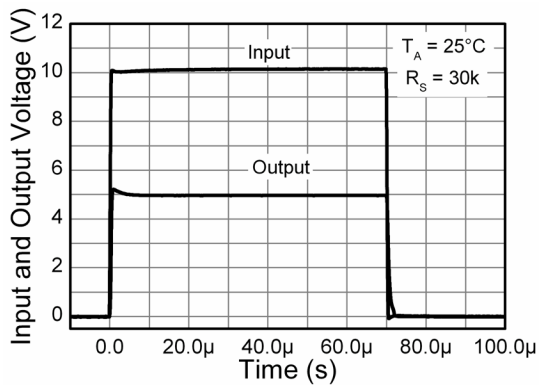
Long Pulse Response
LM4040-30



Long Pulse Response
LM4040-33



Long Pulse Response
LM4040-41



Long Pulse Response
LM4040-50

Application Information

In a conventional shunt regulator application (Figure 1), an external series resistor (R_S) is connected between the supply voltage, V_S , and the LM4040.

R_S determines the current that flows through the load (I_L) and the LM4040 (I_R). Because load current and supply voltage can vary, R_S should be small enough to supply at least the minimum acceptable I_R to the LM4040 even when the supply voltage is at its minimum and the load current is at its maximum value. When the supply voltage is at its maximum and I_L is at its minimum, R_S should be large enough so that the current flowing through the LM4040 is less than 15mA.

R_S is determined by the supply voltage, (V_S), the load and operating current, (I_L and I_R), and the LM4040's reverse breakdown voltage, V_R .

$$R_S = \frac{V_S - V_R}{I_L + I_R}$$

Printed Circuit Board Layout Considerations

The LM4040 device in the SOT23 package has the die attached to pin 3, which results in an electrical contact between pin 2 and pin 3. Therefore, pin 3 of the SOT23 package must be left floating or connected to pin 2.

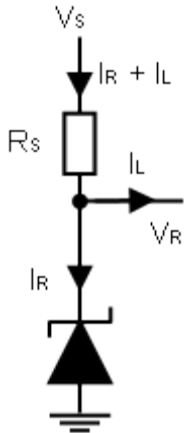
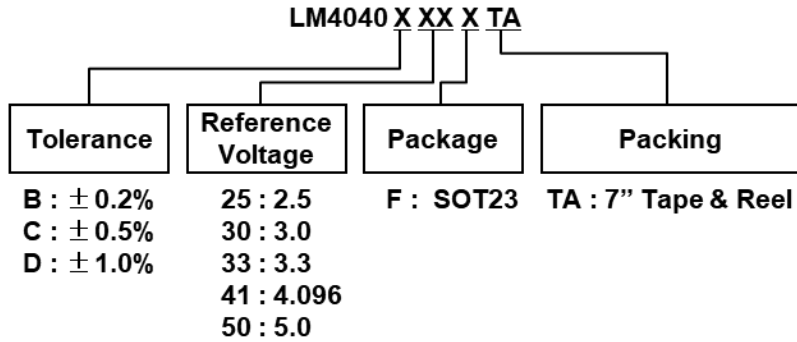


Figure 1

Ordering Information



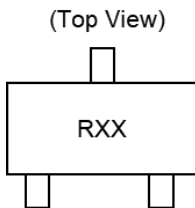
Part Number	+25°C Tol	Voltage (V)	Status (Note 4)	Package (Note 5)	Identification Code	Reel Size	Tape Width	Quantity per Reel
LM4040B25FTA	0.2%	2.5	Full Production	SOT23	R2B	7", 180mm	8mm	3000
LM4040B30FTA		3.0	Full Production	SOT23	R3B	7", 180mm	8mm	3000
LM4040B33FTA		3.3	Full Production	SOT23	3B3	7", 180mm	8mm	3000
LM4040B41FTA		4.096	Full Production	SOT23	4B1	7", 180mm	8mm	3000
LM4040B50FTA		5.0	Full Production	SOT23	R5B	7", 180mm	8mm	3000
LM4040C25FTA	0.5%	2.5	Full Production	SOT23	R2C	7", 180mm	8mm	3000
LM4040C30FTA		3.0	Full Production	SOT23	R3C	7", 180mm	8mm	3000
LM4040C33FTA		3.3	Full Production	SOT23	3C3	7", 180mm	8mm	3000
LM4040C41FTA		4.096	Full Production	SOT23	4C1	7", 180mm	8mm	3000
LM4040C50FTA		5.0	Full Production	SOT23	R5C	7", 180mm	8mm	3000
LM4040D25FTA	1%	2.5	Full Production	SOT23	R2D	7", 180mm	8mm	3000
LM4040D30FTA		3.0	Full Production	SOT23	R3D	7", 180mm	8mm	3000
LM4040D33FTA		3.3	Full Production	SOT23	3D3	7", 180mm	8mm	3000
LM4040D41FTA		4.096	Full Production	SOT23	4D1	7", 180mm	8mm	3000
LM4040D50FTA		5.0	Full Production	SOT23	R5D	7", 180mm	8mm	3000

See LM4040Q datasheet for Automotive-compliant versions with AEC-Q100 qualification.

- Notes: 4. SC70-5 (H5 package code) options are End Of Life (EOL). Package information can be found at end of datasheet.
5. Package dimensions and pad layout can be found on our website at <http://www.diodes.com/package-outlines.html>.

Marking Information

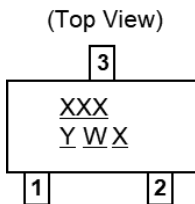
- (1) SOT23
LM4040-25, LM4040-30, LM4040-50



RXX : Identification Code

Part Number	Identification Code
LM4040B25FTA	R2B
LM4040B30FTA	R3B
LM4040B50FTA	R5B
LM4040C25FTA	R2C
LM4040C30FTA	R3C
LM4040C50FTA	R5C
LM4040D25FTA	R2D
LM4040D30FTA	R3D
LM4040D50FTA	R5D

- LM4040-33, LM4040-41

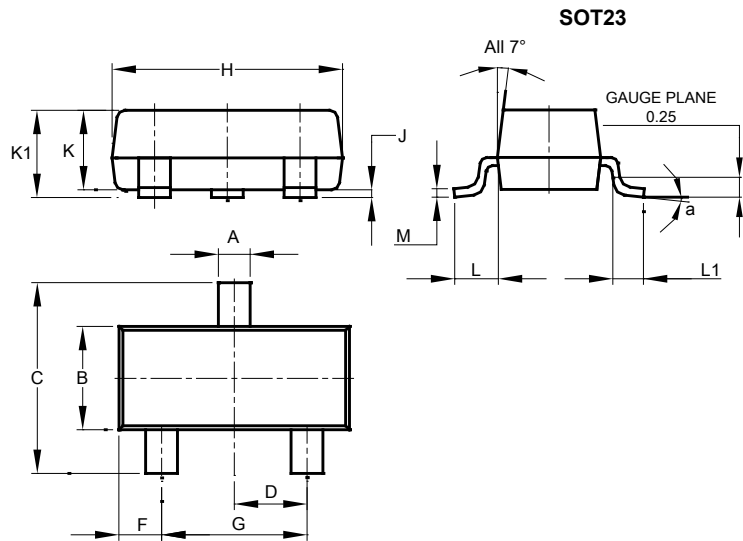


- XXX : Identification code
Y : Year : 0~9
W : Week: A~Z : 1~26 week;
a~z : 27~52 week; z represents 52 and 53 week
X : Internal code

Part Number	Identification Code
LM4040B33FTA	3B3
LM4040B41FTA	4B1
LM4040C33FTA	3C3
LM4040C41FTA	4C1
LM4040D33FTA	3D3
LM4040D41FTA	4D1

Package Outline Dimensions

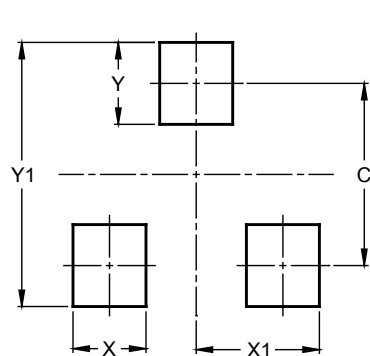
Please see <http://www.diodes.com/package-outlines.html> for the latest version.



SOT23			
Dim	Min	Max	Typ
A	0.37	0.51	0.40
B	1.20	1.40	1.30
C	2.30	2.50	2.40
D	0.89	1.03	0.915
F	0.45	0.60	0.535
G	1.78	2.05	1.83
H	2.80	3.00	2.90
J	0.013	0.10	0.05
K	0.890	1.00	0.975
K1	0.903	1.10	1.025
L	0.45	0.61	0.55
L1	0.25	0.55	0.40
M	0.085	0.150	0.110
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> for the latest version.



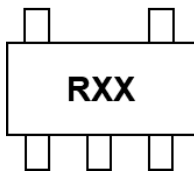
Dimensions	Value (in mm)
C	2.0
X	0.8
X1	1.35
Y	0.9
Y1	2.9

SC70-5 (H5) End of Life Options

Part Number	+25°C Tol	Voltage (V)	Status (Note 4)	Package (Note 5)	Identification Code	Reel Size	Tape Width	Quantity per Reel
LM4040B25H5TA	0.2%	2.5	End of Life	SC70-5	R2B	7", 180mm	8mm	3000
LM4040B30H5TA		3.0	End of Life	SC70-5	R3B	7", 180mm	8mm	3000
LM4040B50H5TA		5.0	End of Life	SC70-5	R5B	7", 180mm	8mm	3000
LM4040C25H5TA	0.5%	2.5	End of Life	SC70-5	R2C	7", 180mm	8mm	3000
LM4040C30H5TA		3.0	End of Life	SC70-5	R3C	7", 180mm	8mm	3000
LM4040C50H5TA		5.0	End of Life	SC70-5	R5C	7", 180mm	8mm	3000
LM4040D25H5TA	1%	2.5	End of Life	SC70-5	R2D	7", 180mm	8mm	3000
LM4040D30H5TA		3.0	End of Life	SC70-5	R3D	7", 180mm	8mm	3000
LM4040D50H5TA		5.0	End of Life	SC70-5	R5D	7", 180mm	8mm	3000

Marking Information

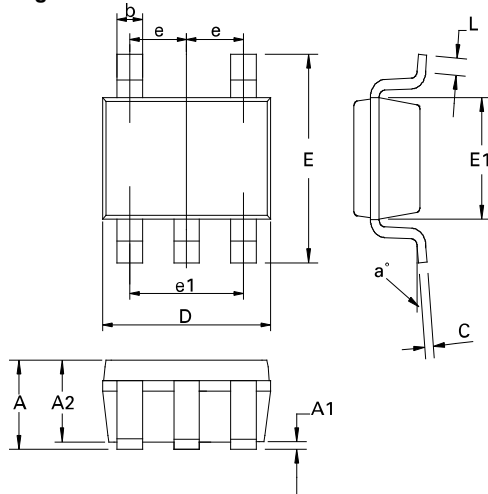
(Top View)



RXX : Identification code

Part Number	Identification Code
LM4040B25H5TA	R2B
LM4040B30H5TA	R3B
LM4040B50H5TA	R5B
LM4040C25H5TA	R2C
LM4040C30H5TA	R3C
LM4040C50H5TA	R5C
LM4040D25H5TA	R2D
LM4040D30H5TA	R3D
LM4040D50H5TA	R5D

Package Outline Dimensions



Dim.	Min.	Max.	Typ.
A	1.1	0.8	-
A1	0.1	-	-
A2	1	0.8	-
b	0.3	0.15	-
C	0.25	0.08	-
D	2.00 BSC		
E	2.10 BSC		
E1	1.25 BSC		
e	0.65 BSC		
e1	1.30 BSC		
L	0.46	0.26	-
a°	0	8	-

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