

Absolute Maximum Ratings

IN to GND -0.3V to +42V
OUTF, OUTS to GND -0.3V to (V_{IN} + 0.3V)
Continuous Power Dissipation ($T_A = +70^\circ\text{C}$)
 6-Pin SOT23 (derate 7.40mW/ $^\circ\text{C}$ above +70°C) ...595.20mW
OUT_Short-Circuit Duration 5s
Operating Temperature Range -40°C to +125°C
Storage Temperature Range -65°C to +150°C

Junction Temperature Range -65°C to +150°C
Maximum Junction Temperature +150°C
Lead Temperature (soldering, 10s) +300°C
Soldering Temperature (reflow)
 RoHS-compliant package +245°C
 Packages containing lead(Pb) +240°C

Package Information

6 SOT23

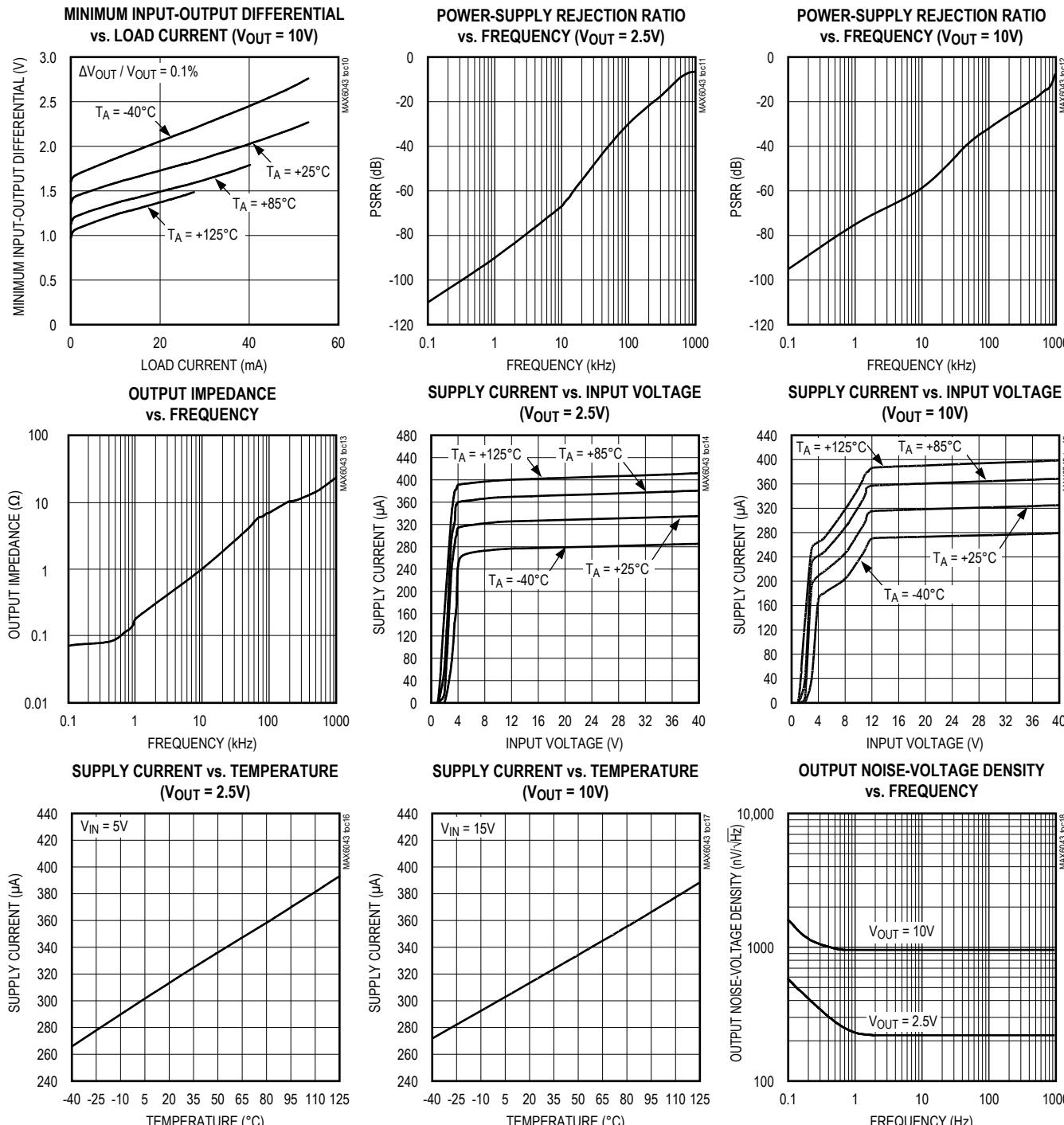
PACKAGE CODE	U6F+6
Outline Number	21-0058
Land Pattern Number	90-0175
Thermal Resistance, Single-Layer Board	
Junction to Ambient (θ_{JA})	185.50°C/W
Junction to Case (θ_{JC})	75°C/W
Thermal Resistance, Four-Layer Board	
Junction to Ambient (θ_{JA})	134.40°C/W
Junction to Case (θ_{JC})	39°C/W

For the latest package outline information and land patterns (footprints), go to [www.maximintegrated.com/packages](#). Note that a "+", "#", or "-" in the package code indicates RoHS status only. Package drawings may show a different suffix character, but the drawing pertains to the package regardless of RoHS status.

Package thermal resistances were obtained using the method described in JEDEC specification JESD51-7, using a four-layer board. For detailed information on package thermal considerations, refer to [www.maximintegrated.com/thermal-tutorial](#).

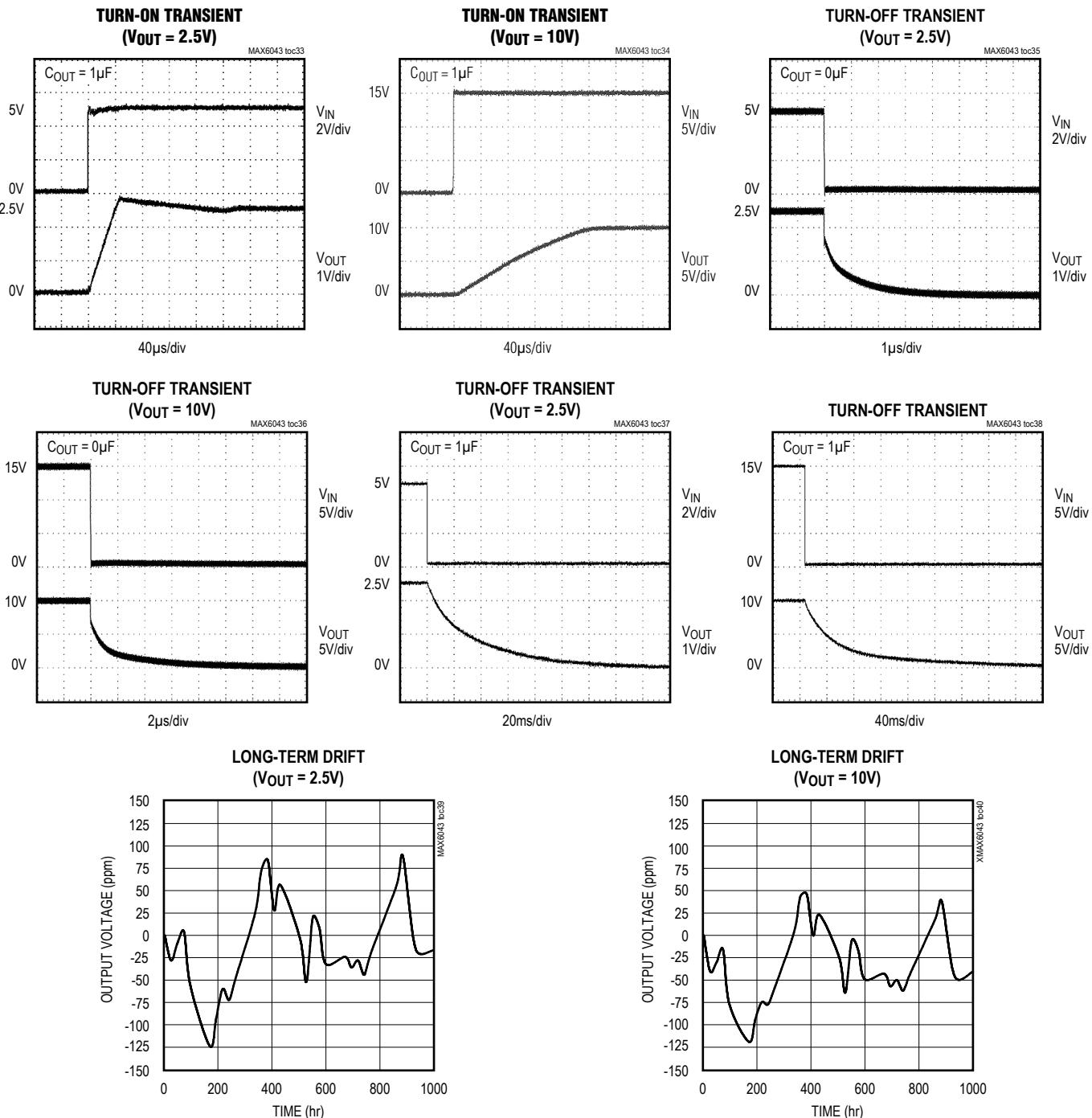
Typical Operating Characteristics (continued)

($V_{IN} = +5V$ for $V_{OUT} = +2.5V$, $V_{IN} = +10V$ for $V_{OUT} = +3.3V$ or $+4.096V$, $V_{IN} = +15V$ for $V_{OUT} = +5V$ or $+10V$, $I_{OUT} = 0$, $T_A = +25^\circ C$, unless otherwise noted.)



Typical Operating Characteristics (continued)

($V_{IN} = +5V$ for $V_{OUT} = +2.5V$, $V_{IN} = +10V$ for $V_{OUT} = +3.3V$ or $+4.096V$, $V_{IN} = +15V$ for $V_{OUT} = +5V$ or $+10V$, $I_{OUT} = 0$, $T_A = +25^\circ C$, unless otherwise noted.)



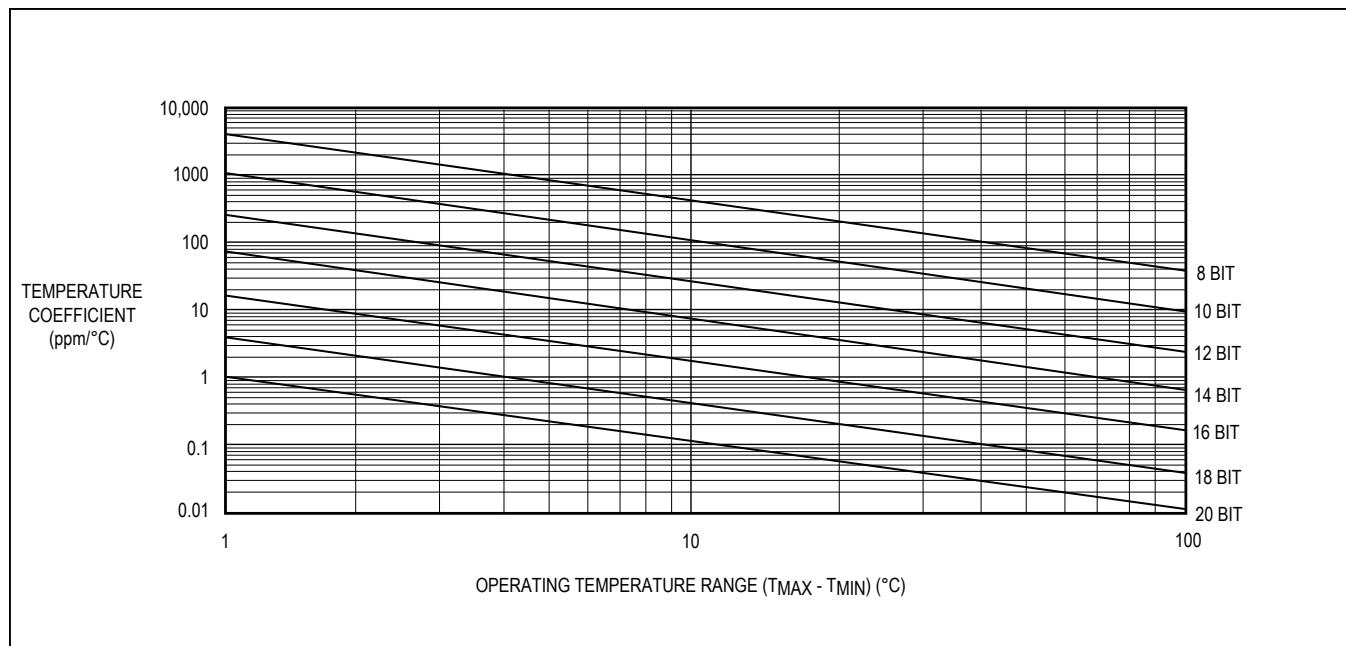
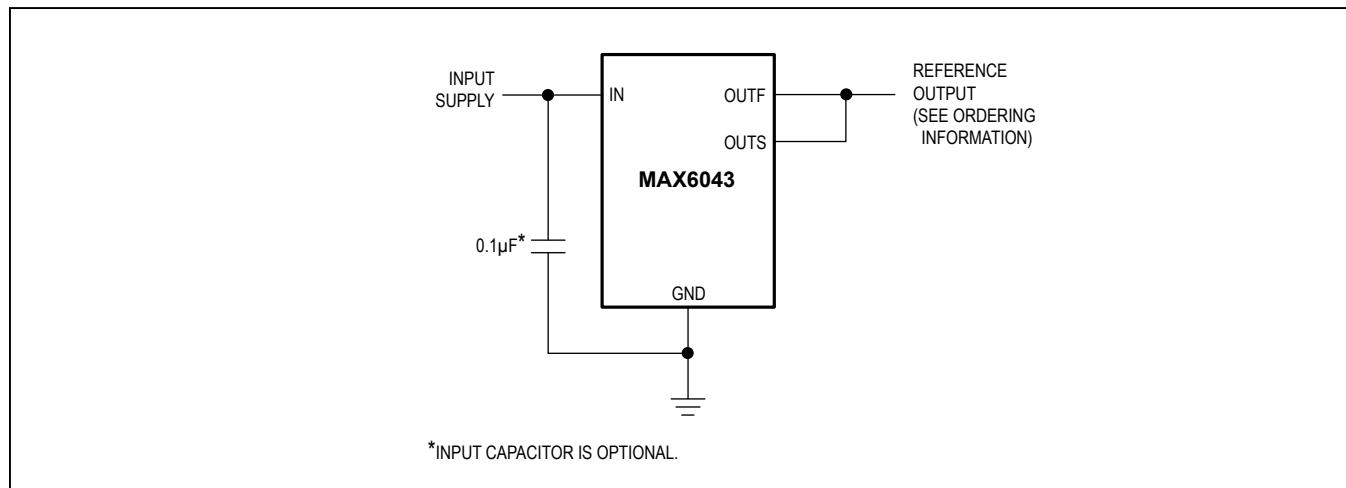


Figure 1. Temperature Coefficient vs. Operating Temperature Range for a 1 LSB Maximum Error

Typical Operating Circuit



Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	11/03	Initial release	—
1	5/04	Added future product information, updated the <i>Electrical Characteristics</i> and <i>Typical Operating Characteristics</i> .	1–6, 11, 12
2	8/12	Updated the <i>Ordering Information/Selector Guide</i> , <i>Absolute Maximum Ratings</i> , and the <i>Package Information</i> sections.	1, 14, 15
3	1/19	Updated <i>Ordering Information</i> , <i>Absolute Maximum Ratings</i> , added <i>Package Information</i> section,	1, 2, 14
4	3/19	Updated <i>Ordering Information</i>	15

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