

LM2576

52 kHz Simple 3A Buck Regulator

Features

- 3.3V, 5V, 12V, and Adjustable Output Versions
- Voltage over Specified Line and Load Conditions:
- Fixed Version: ±3% Max. Output Voltage
- Adjustable Version: ±2% Max. Feedback Voltage
- Specified 3A Output Current
- Wide Input Voltage Range of 4V to 40V
- Wide Output Voltage Range of 1.23V to 37V
- Requires Only Four External Components
- 52 kHz Fixed-Frequency Internal Oscillator
- Low Power Standby Mode I_Ω Typically <200 µA
- 80% Efficiency (Adjustable Version Typically >80%)
- Uses Readily Available Standard Inductors
- Thermal Shutdown and Current Limit Protection
- 100% Electrical Thermal Limit Built-In

Applications

- Simple High-Efficiency Step-Down (Buck) Regulator
- Efficient Pre-Regulator for Linear Regulators
- On-Card Switching Regulators
- Positive and Negative Converter (Inverting Buck-Boost)
- Isolated Flyback Converter using Minimum Number of External Components
- Negative Boost Converter

Package Types

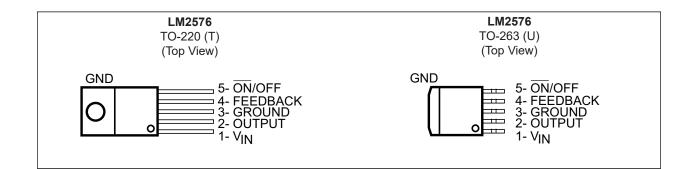
General Description

The LM2576 series of monolithic integrated circuits provide all the active functions for a step-down (buck) switching regulator. Fixed versions are available with a 3.3V, 5V, or 12V fixed output. Adjustable versions have an output voltage range from 1.23V to 37V. Both versions are capable of driving a 3A load with excellent line and load regulation.

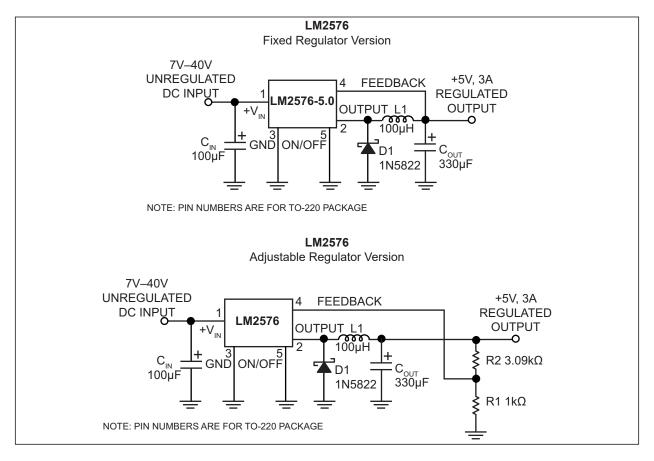
These regulators are simple to use because they require a minimum number of external components and include internal frequency compensation and a fixed-frequency oscillator. The LM2576 series offers a high efficiency replacement for popular three-terminal adjustable linear regulators. It substantially reduces the size of the heat sink, and in many cases no heat sink is required.

A standard series of inductors available from several different manufacturers are ideal for use with the LM2576 series. This feature greatly simplifies the design of switch-mode power supplies.

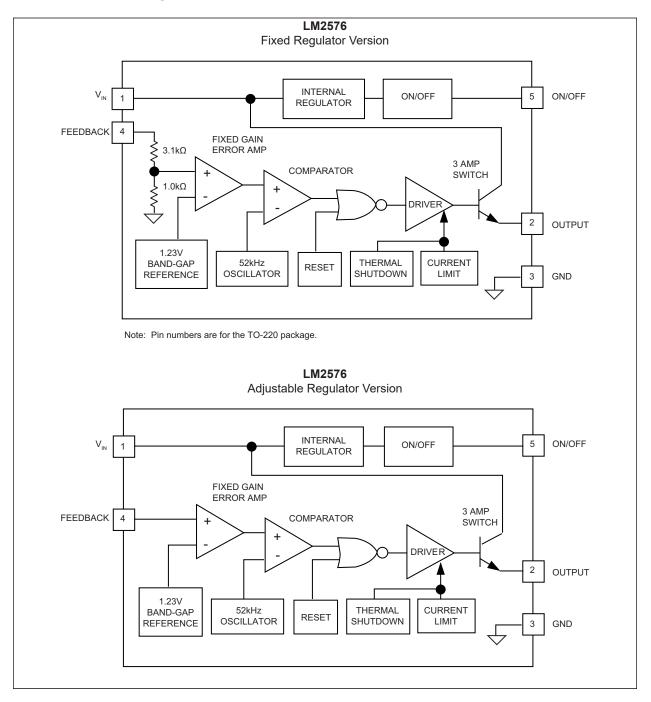
The feedback voltage is guaranteed to $\pm 2\%$ tolerance for adjustable versions, and the output voltage is guaranteed to $\pm 3\%$ for fixed versions, within specified input voltages and output load conditions. The oscillator frequency is guaranteed to $\pm 10\%$. External shutdown is included, featuring less than 200μ A standby current. The output switch includes cycle-by-cycle current limiting and thermal shutdown for full protection under fault conditions.



Typical Application Circuits



Functional Block Diagrams



1.0 ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings †

Maximum Supply Voltage	+45V
ON/OFF Pin Input Voltage	–0.3V ≤ V ≤ +40V
Output Voltage to Ground	–1V
Power Dissipation	
ESD Rating (Note 1) C = 100 pF, R = 1.5 kΩ	
FB Pin	1 kV

Operating Ratings ††

Supply Voltage (V _{IN})+4	40V
-------------------------------------	-----

† Notice: Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational sections of this specification is not intended. Exposure to maximum rating conditions for extended periods may affect device reliability.

†† Notice: The device is not guaranteed to function outside its operating ratings.

Note 1: Devices are ESD sensitive. Handling precautions recommended. Human body model, 1.5 k Ω in series with 100 pF.

ELECTRICAL CHARACTERISTICS

Specifications with standard typeface are for T_J = +25°C, **bold** values are valid for -40°C ≤ T_J ≤ +125°C. Unless otherwise specified, V_{IN} = 12V, and I_{LOAD} = 500 mA. Note 1

Parameter	Sym.	Min.	Тур.	Max.	Units	Conditions			
System Parameters, Adjustable Regulators (Note 2) Test Circuit Figure 4-1									
Feedback Voltage	V _{OUT}	1.217	1.230	1.243	V	V _{IN} = 12V, I _{LOAD} = 0.5A, V _{OUT} = 5V			
Feedback Voltage	N	1.193	1.230	1.267		0.5A ≤ I _{LOAD} ≤ 3A, 8V ≤ V _{IN} ≤ 40V,			
LM2576	V _{OUT}	1.180		1.280	V	$V_{OUT} = 5V$			
Efficiency	η		82		%	V _{IN} = 12V, I _{LOAD} = 3A, V _{OUT} = 5V			
System Parameters, 3.3V Regulators (Note 2) Test Circuit Figure 4-1									
Output Voltage	V _{OUT}	3.234	3.3	3.363	V	V _{IN} = 12V, I _{LOAD} = 0.5A, V _{OUT} = 3.3V			
Output voltage		3.168	3.3	3.432	V	$0.5A \le I_{LOAD} \le 3A, 6V \le V_{IN} \le 40V,$			
LM2576-3.3	V _{OUT}	3.135		3.465	V	$V_{OUT} = 3.3V$			
Efficiency	η		75	_	%	V _{IN} = 12V, I _{LOAD} = 3A			
System Parameters, 5V Regulators (Note 2) Test Circuit Figure 4-1									
Output Voltage	V _{OUT}	4.900	5.0	5.100	V	V _{IN} = 12V, I _{LOAD} = 0.5A, V _{OUT} = 5.0V			
Output voltage		4.800	5.0	5.200	- V	$0.5A \le I_{LOAD} \le 3A, 8V \le V_{IN} \le 40V,$ $V_{OUT} = 5.0V$			
LM2576-5.0	V _{OUT}	4.750	_	5.250					

Note 1: Specification for packaged product only.

2: External components such as the catch diode, inductor, input and output capacitors can affect switching regulator system performance. When the LM2576/LM1576 is used as shown in Figure 4-1 test circuit, system performance will be shown in system parameters section of Electrical Characteristics.

3: Output (pin 2) sourcing current. No diode, inductor or capacitor connected to output.

4: Feedback (pin 4) removed from output and connected to 0V.

5: Feedback (pin 4) removed from output and connected to 12V to force the output transistor OFF.

ELECTRICAL CHARACTERISTICS (CONTINUED)

Specifications with standard typeface are for T_J = +25°C, **bold** values are valid for -40°C ≤ T_J ≤ +125°C. Unless otherwise specified, V_{IN} = 12V, and I_{LOAD} = 500 mA. Note 1

Parameter	Sym.	Min.	Тур.	Max.	Units	Conditions			
Efficiency	η		82		%	V _{IN} = 12V, I _{LOAD} = 3A			
System Parameters, 12V Regulators (Note 2) Test Circuit Figure 4-1									
Output Voltage	V _{OUT}	11.760	12.0	12.240	V	V _{IN} = 25V, I _{LOAD} = 0.5A, V _{OUT} = 12V			
Output voltage	V	11.520	12.0	12.480	V	0.5A ≤ I _{LOAD} ≤ 3A, 15V ≤ V _{IN} ≤ 40V,			
LM2576-12	V _{OUT}	11.400	_	12.600		$V_{OUT} = 12V$			
Efficiency	η		88	_	%	V _{IN} = 25V, I _{LOAD} = 3A			
Device Parameters, Adjust	stable Re	gulator							
Feedback Bias Current	Ι _Β	100	50	500	nA	V _{OUT} = 5V			
Device Parameters, Fixed	d and Adj	ustable Reg	julators						
	£	47	52	58		_			
Oscillator Frequency	f _O	42		63	kHz				
	V _{SAT}		1.4	1.8	V	I _{OUT} = 3A, Note 3			
Saturation Voltage		_	_	2.0					
Max. Duty Cycle (ON)	DC	93	98	_	%	Note 4			
Oursent Linsit	I _{LIM}	4.2	5.8	6.9	A	Peak current, t _{ON} ≤ 3 µs, Note 3			
Current Limit		3.5		7.5					
	ι _L	_		2		V _{IN} = 40V, Note 5, Output = 0V			
Output Leakage Current		_	7.5		mA	Output = -1V			
		_		30		Note 5, Output = $-1V$			
Quiescent Current	Ι _Q		5	10	mA	Note 5			
Standby Quiescent Current	I _{STBY}	_	50	200	μA	ON/OFF Pin = 5V (OFF)			
On/Off Control, Fixed and Adjustable Regulators, Test Circuit Figure 4-1									
ON/OFF Pin Logic Input	V _{IH}	2.2	1.4	2.4	\ <i>\</i>	V _{OUT} = 0V			
Level	V _{IL}	1.0	1.2	0.8	V	V _{OUT} = 5V			
ON/OFF Pin Logic	I _{IH}	_	4	30		ON/OFF Pin = 5V (OFF)			
Current	IIL	_	0.01	10	μA	ON/OFF Pin = 0V (ON)			

Note 1: Specification for packaged product only.

- 3: Output (pin 2) sourcing current. No diode, inductor or capacitor connected to output.
- 4: Feedback (pin 4) removed from output and connected to 0V.
- 5: Feedback (pin 4) removed from output and connected to 12V to force the output transistor OFF.

^{2:} External components such as the catch diode, inductor, input and output capacitors can affect switching regulator system performance. When the LM2576/LM1576 is used as shown in Figure 4-1 test circuit, system performance will be shown in system parameters section of Electrical Characteristics.

TEMPERATURE SPECIFICATIONS

Sym.	Min.	Тур.	Max.	Units	Conditions			
Temperature Ranges								
TJ	_	_	+150	°C	_			
Τ _S	-65	—	+150	°C	—			
	_	_	+260	°C	Soldering, 10 sec.			
T _A	-40	_	+125	°C	—			
θ _{JA}	_	65		°C/W	Junction-to-Ambient, Note 2			
θ_{JA}	_	45	_	°C/W	Junction-to-Ambient, Note 3			
θ _{JC}	_	2	_	°C/W	Junction-to-Case			
	Τ _J Τ _S — Τ _A θ _{JA}	T _J — T _S —65 — — T _A —40 θ _{JA} — θ _{JA} —	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			

Note 1: The maximum allowable power dissipation is a function of ambient temperature, the maximum allowable junction temperature and the thermal resistance from junction to air (i.e., T_A, T_J, θ_{JA}). Exceeding the maximum allowable power dissipation will cause the device operating junction temperature to exceed the maximum +125°C rating. Sustained junction temperatures above +125°C can impact the device reliability.

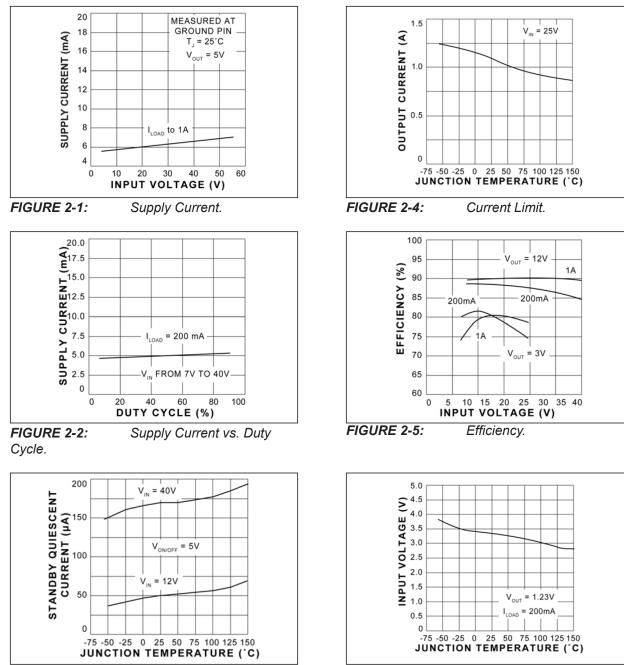
2: Junction to ambient thermal resistance (no external heat sink) for the 5-lead TO-220 package mounted vertically, with 1/2" leads in a socket, or on PC board with minimum copper area.

3: Junction to ambient thermal resistance (no external heat sink) for the 5-lead TO-220 package mounted vertically, with 1/4" leads soldered to PC board containing approximately 4 square inches of copper area surrounding the leads.

4: Junction to ambient thermal resistance with approximately 1 square inch of PC board copper surrounding the leads. Additional copper will lower thermal resistance further.

2.0 TYPICAL PERFORMANCE CURVES

Note: The graphs and tables provided following this note are a statistical summary based on a limited number of samples and are provided for informational purposes only. The performance characteristics listed herein are not tested or guaranteed. In some graphs or tables, the data presented may be outside the specified operating range (e.g., outside specified power supply range) and therefore outside the warranted range.





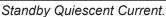


FIGURE 2-6: Minimu

Minimum Operating Voltage.

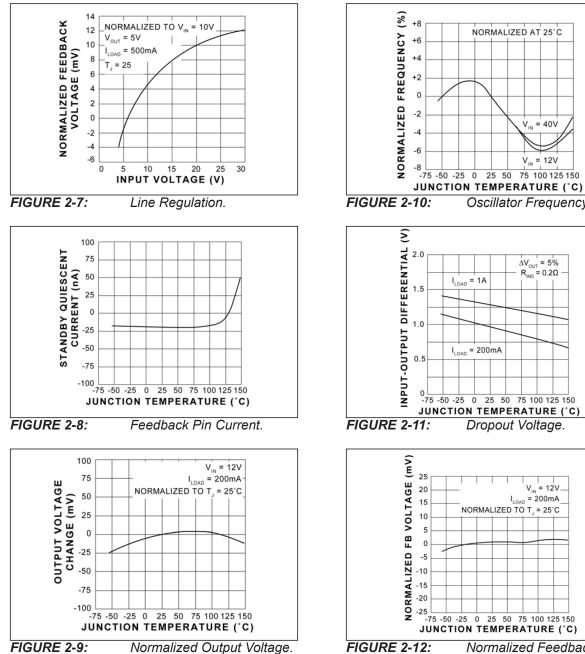


FIGURE 2-12: Normalized Feedback Voltage (Adjustable Version Only).

NORMALIZED AT 25°C

V_{IN} = 40V

V_{IN} = 12V

 $\Delta V_{OUT} = 5\%$ R_{IND} = 0.2Ω

 $I_{LOAD} = 1A$

 $I_{LOAD} = 200 \text{mA}$

Dropout Voltage.

I_{LOAD} = 200mA NORMALIZED TO T_J = 25°C

V_{IN} = 12V

Oscillator Frequency.

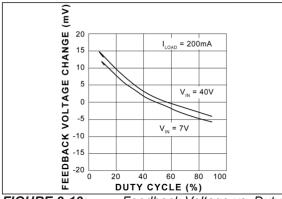
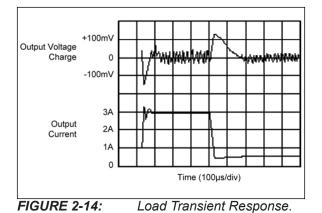
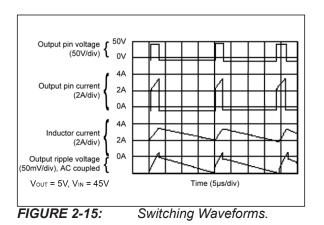


FIGURE 2-13: Feedback Voltage vs. Duty Cycle (Adjustable Version Only).





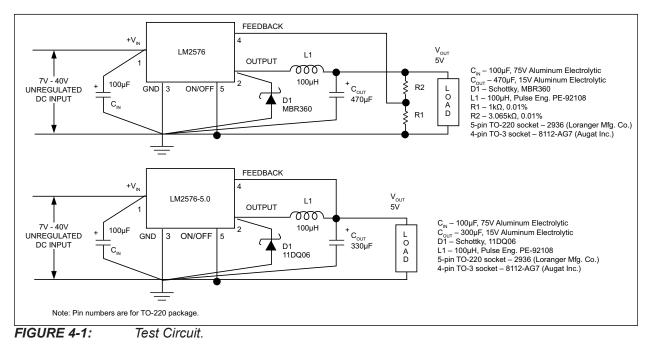
3.0 PIN DESCRIPTIONS

The descriptions of the pins are listed in Table 3-1.

Pin Number	Pin Name	Description			
1	V _{IN}	Supply input. Requires bypass capacitor to GND.			
2	OUTPUT	Switch output. Internal MOSFET switch output.			
3	GND	Ground.			
4	FB	Feedback. For fixed output versions, connect to the output. For adjustable versions, connect to external resistive divider to set output voltage.			
5	ON/OFF	Enable. Logic low enables operation. Logic high shuts down the regulator. Do not leave floating.			

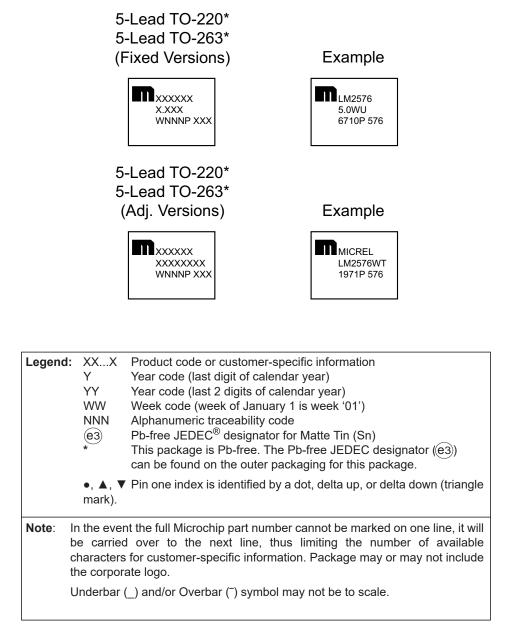
4.0 TEST CIRCUIT

As in any switching regulator, layout is very important. Rapidly switching currents associated with wiring inductance generate voltage transients which can cause problems. For minimal stray inductance and ground loops, the length of the leads indicated by heavy lines should be kept as short as possible. Single point grounding (as indicated) or grounding plane construction should be used for best results.

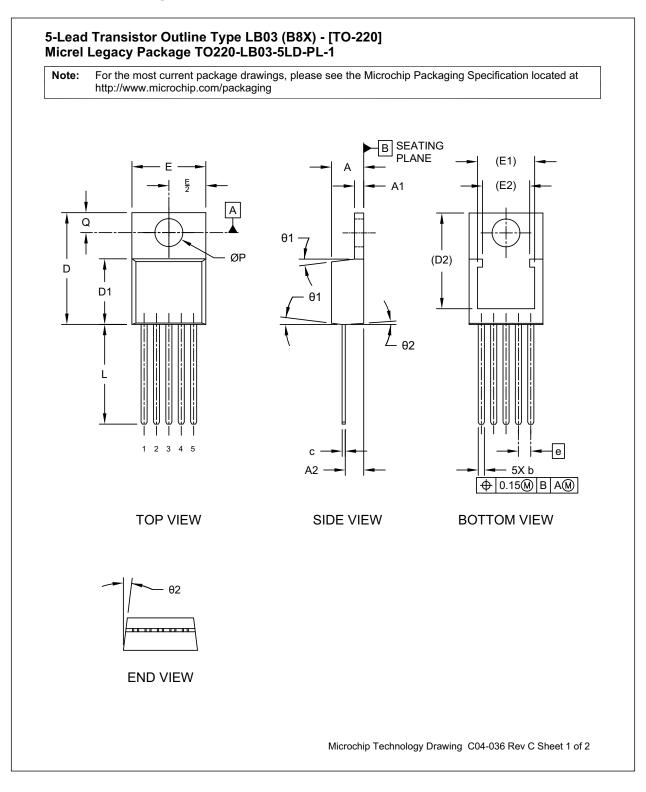


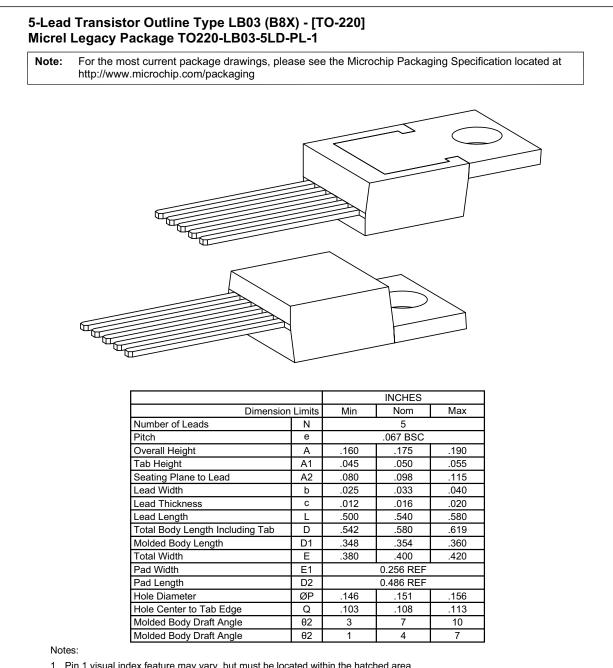
5.0 PACKAGING INFORMATION

5.1 Package Marking Information



5-Lead TO-220 Package Outline and Recommended Land Pattern



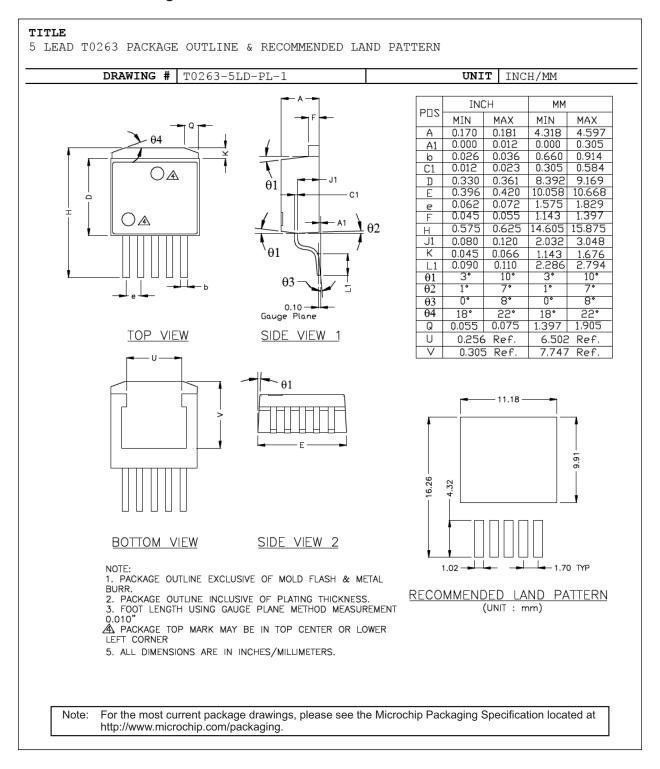


1. Pin 1 visual index feature may vary, but must be located within the hatched area.

2. Dimensioning and tolerancing per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances. REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing C04-036 Rev C Sheet 2 of 2



5-Lead TO-263 Package Outline and Recommended Land Pattern

LM2576

NOTES:

APPENDIX A: REVISION HISTORY

Revision A (August 2019)

- Converted Micrel document LM2576 to Microchip data sheet template DS20006238A.
- Minor grammatical text changes throughout.

LM2576

NOTES:

PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, contact your local Microchip representative or sales office.

		- · ·		-	Examples:	
Device Part No.	- <u>X.X</u> Output Voltage	<u>X</u> Junction Temp. Range	X Package	- <u>XX</u> Media Type	a) LM2576WT:	LM2576, Adj. Output Voltage, –40°C to +125°C Temp. Range, 5-Lead TO-220, 50/Tube
Device:	LM2576:	52 kHz Sim	ple 3A Buck Reg	gulator	b) LM2576-3.3WT:	LM2576, 3.3V Output Voltage, –40°C to +125°C Temp. Range, 5-Lead TO-220, 50/Tube
Output Voltage:	3.3 = 5.0 =	Adjustable 3.3V 5.0V			c) LM2576-5.0WT:	LM2576, 5.0V Output Voltage, -40°C to +125°C Temp. Range, 5-Lead TO-220, 50/Tube
Junction		: 12V			d) LM2576-12WT:	LM2576, 12V Output Voltage, –40°C to +125°C Temp. Range, 5-Lead TO-220, 50/Tube
Temperature Range:	W =	–40°C to +125°C,	RoHS-Complian	nt	e) LM2576WU:	LM2576, Adj. Output Voltage, –40°C to +125°C Temp. Range, 5-Lead TO-263, 50/Tube
Package:	T = U =	5-Lead TO-220 5-Lead TO-263			f) LM2576-3.3WU:	LM2576, 3.3V Output Voltage, -40°C to +125°C Temp. Range, 5-Lead TO-263, 50/Tube
Media Type:	<blank>= TR =</blank>	50/Tube 750/Reel			g) LM2576-5.0WU:	LM2576, 5.0V Output Voltage, –40°C to +125°C Temp. Range, 5-Lead TO-263, 50/Tube
					h) LM2576-12WU:	LM2576, 12V Output Voltage, –40°C to +125°C Temp. Range, 5-Lead TO-263, 50/Tube
					i) LM2576WU-TR:	LM2576, Adj. Output Voltage, –40°C to +125°C Temp. Range, 5-Lead TO-263, 750/Reel
					j) LM2576-3.3WU-1	FR: LM2576, 3.3V Output Voltage, -40°C to +125°C Temp. Range, 5-Lead TO-263, 750/Reel
					k) LM2576-5.0WU-	TR: LM2576, 5.0V Output Voltage, -40°C to +125°C Temp. Range, 5-Lead TO-263, 750/Reel
					I) LM2576-12WU-T	R: LM2576, 12V Output Voltage, -40°C to +125°C Temp. Range, 5-Lead TO-263, 750/Reel
					catalog p used for the devic Sales Of	d Reel identifier only appears in the part number description. This identifier is ordering purposes and is not printed on se package. Check with your Microchip fice for package availability with the d Reel option.

LM2576

NOTES:

Note the following details of the code protection feature on Microchip devices:

- Microchip products meet the specification contained in their particular Microchip Data Sheet.
- Microchip believes that its family of products is one of the most secure families of its kind on the market today, when used in the intended manner and under normal conditions.
- There are dishonest and possibly illegal methods used to breach the code protection feature. All of these methods, to our knowledge, require using the Microchip products in a manner outside the operating specifications contained in Microchip's Data Sheets. Most likely, the person doing so is engaged in theft of intellectual property.
- Microchip is willing to work with the customer who is concerned about the integrity of their code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of their code. Code protection does not mean that we are guaranteeing the product as "unbreakable."

Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our products. Attempts to break Microchip's code protection feature may be a violation of the Digital Millennium Copyright Act. If such acts allow unauthorized access to your software or other copyrighted work, you may have a right to sue for relief under that Act.

Information contained in this publication regarding device applications and the like is provided only for your convenience and may be superseded by updates. It is your responsibility to ensure that your application meets with your specifications. MICROCHIP MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, STATUTORY OR OTHERWISE, RELATED TO THE INFORMATION, INCLUDING BUT NOT LIMITED TO ITS CONDITION, QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR PURPOSE. Microchip disclaims all liability arising from this information and its use. Use of Microchip devices in life support and/or safety applications is entirely at the buyer's risk, and the buyer agrees to defend, indemnify and hold harmless Microchip from any and all damages, claims, suits, or expenses resulting from such use. No licenses are conveyed, implicitly or otherwise, under any Microchip intellectual property rights unless otherwise stated.

Trademarks

The Microchip name and logo, the Microchip logo, Adaptec, AnyRate, AVR, AVR logo, AVR Freaks, BesTime, BitCloud, chipKIT, chipKIT logo, CryptoMemory, CryptoRF, dsPIC, FlashFlex, flexPWR, HELDO, IGLOO, JukeBlox, KeeLoq, Kleer, LANCheck, LinkMD, maXStylus, maXTouch, MediaLB, megaAVR, Microsemi, Microsemi logo, MOST, MOST logo, MPLAB, OptoLyzer, PackeTime, PIC, picoPower, PICSTART, PIC32 logo, PolarFire, Prochip Designer, QTouch, SAM-BA, SenGenuity, SpyNIC, SST, SST Logo, SuperFlash, Symmetricom, SyncServer, Tachyon, TempTrackr, TimeSource, tinyAVR, UNI/O, Vectron, and XMEGA are registered trademarks of Microchip Technology Incorporated in the U.S.A. and other countries.

APT, ClockWorks, The Embedded Control Solutions Company, EtherSynch, FlashTec, Hyper Speed Control, HyperLight Load, IntelliMOS, Libero, motorBench, mTouch, Powermite 3, Precision Edge, ProASIC, ProASIC Plus, ProASIC Plus logo, Quiet-Wire, SmartFusion, SyncWorld, Temux, TimeCesium, TimeHub, TimePictra, TimeProvider, Vite, WinPath, and ZL are registered trademarks of Microchip Technology Incorporated in the U.S.A.

Adjacent Key Suppression, AKS, Analog-for-the-Digital Age, Any Capacitor, AnyIn, AnyOut, BlueSky, BodyCom, CodeGuard, CryptoAuthentication, CryptoAutomotive, CryptoCompanion, CryptoController, dsPICDEM, dsPICDEM.net, Dynamic Average Matching, DAM, ECAN, EtherGREEN, In-Circuit Serial Programming, ICSP, INICnet, Inter-Chip Connectivity, JitterBlocker, KleerNet, KleerNet Iogo, memBrain, Mindi, MiWi, MPASM, MPF, MPLAB Certified Iogo, MPLIB, MPLINK, MultiTRAK, NetDetach, Omniscient Code Generation, PICDEM, PICDEM.net, PICkit, PICtail, PowerSmart, PureSilicon, QMatrix, REAL ICE, Ripple Blocker, SAM-ICE, Serial Quad I/O, SMART-I.S., SQI, SuperSwitcher, SuperSwitcher II, Total Endurance, TSHARC, USBCheck, VariSense, ViewSpan, WiperLock, Wireless DNA, and ZENA are trademarks of Microchip Technology Incorporated in the U.S.A. and other countries.

SQTP is a service mark of Microchip Technology Incorporated in the U.S.A.

The Adaptec logo, Frequency on Demand, Silicon Storage Technology, and Symmcom are registered trademarks of Microchip Technology Inc. in other countries.

GestIC is a registered trademark of Microchip Technology Germany II GmbH & Co. KG, a subsidiary of Microchip Technology Inc., in other countries.

All other trademarks mentioned herein are property of their respective companies.

© 2019, Microchip Technology Incorporated, All Rights Reserved.

ISBN: 978-1-5224-4901-0

For information regarding Microchip's Quality Management Systems, please visit www.microchip.com/quality.



Worldwide Sales and Service

AMERICAS

Corporate Office 2355 West Chandler Blvd. Chandler, AZ 85224-6199 Tel: 480-792-7200 Fax: 480-792-7277 Technical Support: http://www.microchip.com/ support

Web Address: www.microchip.com

Atlanta Duluth, GA Tel: 678-957-9614 Fax: 678-957-1455

Austin, TX Tel: 512-257-3370

Boston Westborough, MA Tel: 774-760-0087 Fax: 774-760-0088

Chicago Itasca, IL Tel: 630-285-0071 Fax: 630-285-0075

Dallas Addison, TX Tel: 972-818-7423 Fax: 972-818-2924

Detroit Novi, MI Tel: 248-848-4000

Houston, TX Tel: 281-894-5983

Indianapolis Noblesville, IN Tel: 317-773-8323 Fax: 317-773-5453 Tel: 317-536-2380

Los Angeles Mission Viejo, CA Tel: 949-462-9523 Fax: 949-462-9608 Tel: 951-273-7800

Raleigh, NC Tel: 919-844-7510

New York, NY Tel: 631-435-6000

San Jose, CA Tel: 408-735-9110 Tel: 408-436-4270

Canada - Toronto Tel: 905-695-1980 Fax: 905-695-2078

ASIA/PACIFIC

Australia - Sydney Tel: 61-2-9868-6733

China - Beijing Tel: 86-10-8569-7000 China - Chengdu

Tel: 86-28-8665-5511 China - Chongqing Tel: 86-23-8980-9588

China - Dongguan Tel: 86-769-8702-9880

China - Guangzhou Tel: 86-20-8755-8029

China - Hangzhou Tel: 86-571-8792-8115

China - Hong Kong SAR Tel: 852-2943-5100

China - Nanjing Tel: 86-25-8473-2460

China - Qingdao Tel: 86-532-8502-7355

China - Shanghai Tel: 86-21-3326-8000

China - Shenyang Tel: 86-24-2334-2829

China - Shenzhen

China - Suzhou Tel: 86-186-6233-1526

China - Xian

China - Xiamen Tel: 86-592-2388138

ASIA/PACIFIC

India - Bangalore Tel: 91-80-3090-4444

India - New Delhi Tel: 91-11-4160-8631 India - Pune

Tel: 91-20-4121-0141 Japan - Osaka

Tel: 81-6-6152-7160 Japan - Tokyo

Tel: 81-3-6880- 3770 Korea - Daegu

Tel: 82-53-744-4301 Korea - Seoul

Tel: 82-2-554-7200

Malaysia - Kuala Lumpur Tel: 60-3-7651-7906

Malaysia - Penang Tel: 60-4-227-8870

Philippines - Manila Tel: 63-2-634-9065

Singapore Tel: 65-6334-8870

Taiwan - Hsin Chu Tel: 886-3-577-8366

Taiwan - Kaohsiung Tel: 886-7-213-7830

Taiwan - Taipei Tel: 886-2-2508-8600

Thailand - Bangkok Tel: 66-2-694-1351

Vietnam - Ho Chi Minh Tel: 84-28-5448-2100

Tel: 31-416-690399 Fax: 31-416-690340

Italy - Padova

EUROPE

Austria - Wels

Tel: 43-7242-2244-39

Tel: 45-4450-2828

Fax: 45-4485-2829

Tel: 358-9-4520-820

Tel: 33-1-69-53-63-20

Fax: 33-1-69-30-90-79

Germany - Garching

Tel: 49-2129-3766400

Germany - Heilbronn

Germany - Karlsruhe

Tel: 49-7131-72400

Tel: 49-721-625370

Germany - Munich

Tel: 49-89-627-144-0

Fax: 49-89-627-144-44

Germany - Rosenheim

Tel: 49-8031-354-560

Israel - Ra'anana

Italy - Milan

Tel: 972-9-744-7705

Tel: 39-0331-742611

Fax: 39-0331-466781

Tel: 39-049-7625286

Netherlands - Drunen

Tel: 49-8931-9700

Germany - Haan

Finland - Espoo

France - Paris

Fax: 43-7242-2244-393

Denmark - Copenhagen

Norway - Trondheim Tel: 47-7288-4388

Poland - Warsaw Tel: 48-22-3325737

Romania - Bucharest Tel: 40-21-407-87-50

Spain - Madrid Tel: 34-91-708-08-90 Fax: 34-91-708-08-91

Sweden - Gothenberg Tel: 46-31-704-60-40

Sweden - Stockholm Tel: 46-8-5090-4654

UK - Wokingham Tel: 44-118-921-5800 Fax: 44-118-921-5820

Tel: 86-755-8864-2200

China - Wuhan Tel: 86-27-5980-5300

Tel: 86-29-8833-7252

China - Zhuhai

Tel: 86-756-3210040

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Microchip:

<u>LM2576-5.0WU</u> <u>LM2576WU</u> <u>LM2576WU</u> <u>LM2576-12WU</u> <u>LM2576-3.3WU</u> <u>LM2576-5.0WT</u> <u>LM2576-12WT</u> <u>LM2576-12WU-TR</u> <u>LM2576-5.0WU-TR</u> <u>LM2576-3.3WU-TR</u> <u>LM2576-12WU-TR</u>