MEL71XX Series   Current Regulators

MEL71XX series

  is a low dropout current regulator rated for 260~350mA   constant sink current .
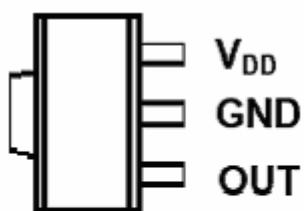
FEATURES

- Supply voltage range：2.7V~6.0V ；
- 260~350mA contant sink current ；
- no external components required ；
- Low dropout voltage ；
- Packages：SOT89-3 。

APPLICATIONS
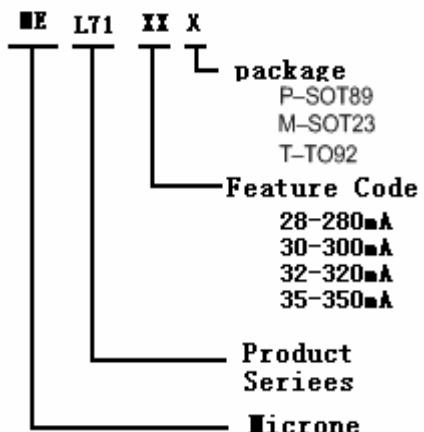
- Power   LED   driver

PIN   CONFIGURATION
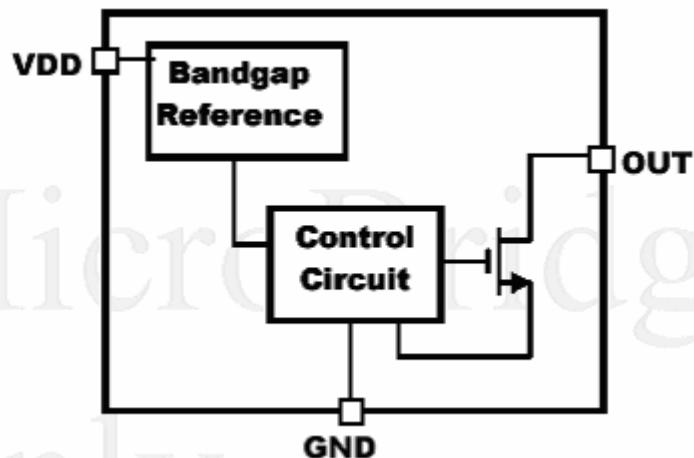
SOT89-3
(Top View)

Selection Guide

Block Diagram

Asolute Maximum Ratings

PARAMETER	SYMBOL	DESCRIPTION	UNIT
Input Voltage	V_{DD}	-0.3 ~7	V
Output Voltage	V_{LEDM}	-0.3 ~7	V
CE pin Voltage	V_{CE}	Vss-0.3 ~ Vout+0.3	V
Operating Ambient Temperature	T_{max}	150	℃
Storage Temperature	T_{stg}	-40 ~ +150	℃
Soldering Temperature And Time	T_{solder}	260℃, 10s	

Recommended Operating Conditions

PARAMETER	SYMBOL	Min	Typ	Max	UNIT
Supply Voltage	V_{DD}	2.7		6	V
Output sink current	Iout			400	mA
Operating Ambient Temperature	T_a	-40		+85	℃

Electrical Characteristics

MEL71XX
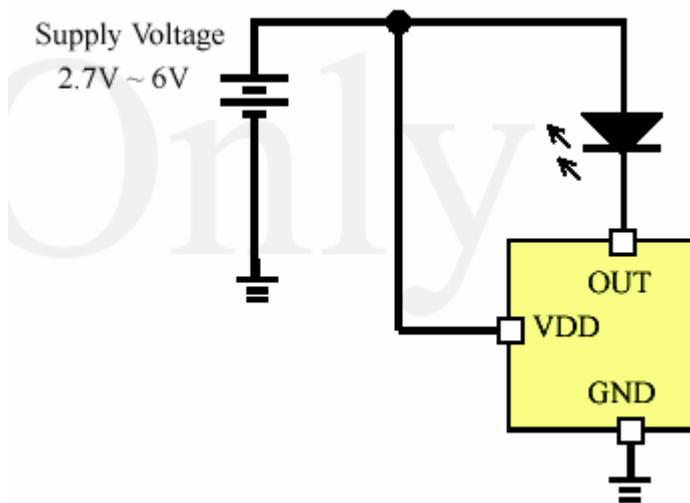
(VDD=3.7V, Ta=25^{0}C, No Load,Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
Output Sink Current	I$_{sink}$	V$_{OUT}$=0.2V	234	260	286	mA
			252	280	308	
			270	300	330	
			288	320	352	
			315	350	385	
Line Regulation		V$_{DD}$ =3V~6V, V$_{OUT}$=0.2V			1	mA/V
Dropout Voltage	V$_{OUTL}$			130		mV
Supply Current	I$_{DD}$			90		μA
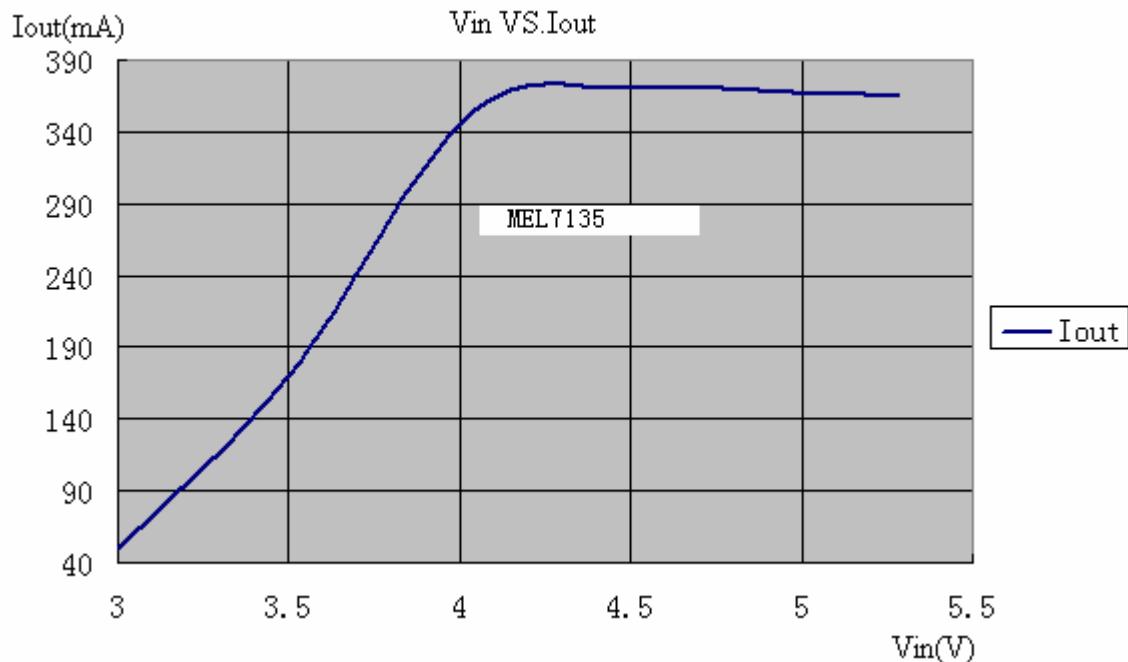
Notice1 :

Output dropout voltage: 90% x Iout @Vout=200mv

Typical Applications

MEL71XX Series

Ver 03
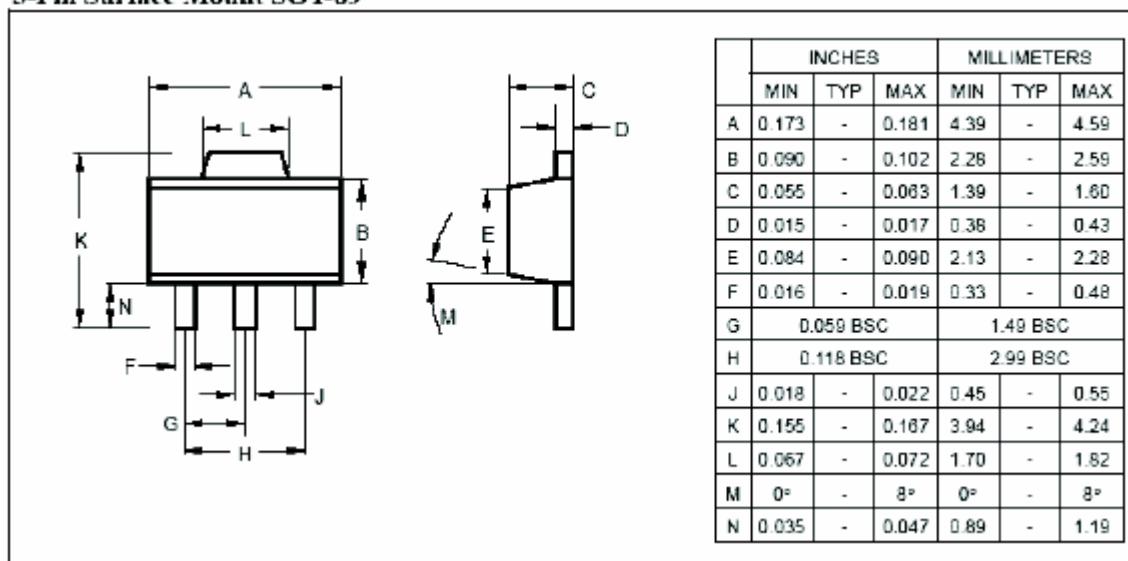
Type Characteristics

Vin VS.Iout

Package Dimensions

3-Pin Surface Mount SOT-89

	INCHES			MILLIMETERS		
	MIN	TYP	MAX	MIN	TYP	MAX
A	0.173	-	0.181	4.39	-	4.59
B	0.090	-	0.102	2.28	-	2.59
C	0.055	-	0.063	1.39	-	1.60
D	0.015	-	0.017	0.38	-	0.43
E	0.084	-	0.090	2.13	-	2.28
F	0.016	-	0.019	0.33	-	0.48
G	0.059 BSC			1.49 BSC		
H	0.118 BSC			2.99 BSC		
J	0.018	-	0.022	0.45	-	0.55
K	0.155	-	0.167	3.94	-	4.24
L	0.067	-	0.072	1.70	-	1.82
M	0°	-	8°	0°	-	8°
N	0.035	-	0.047	0.89	-	1.19

- The information described herein is subject to change without notice.
- Nanjing Micro One Electronics Inc is not responsible for any problems caused by circuits or diagrams described herein whose related industrial properties, patents, or other rights belong to third parties.   The application circuit examples explain typical applications of the products, and do not guarantee the success of any specific mass-production design.
- Use of the information described herein for other purposes and/or reproduction or copying without the express permission of Nanjing Micro One Electronics Inc is strictly prohibited.
- The products described herein cannot be used as part of any device or equipment affecting the human body, such as exercise equipment, medical equipment, security systems, gas equipment, or any apparatus installed in airplanes and other vehicles, without prior written permission of Nanjing Micro One Electronics Inc.
- Although Nanjing Micro One Electronics Inc exerts the greatest possible effort to ensure high quality and reliability, the failure or malfunction of semiconductor products may occur. The user of these products should therefore give thorough consideration to safety design, including redundancy, fire-prevention measures, and malfunction prevention, to prevent any accidents, fires, or community damage that may ensue.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Display Drivers *category:*

Click to view products by Micro One *manufacturer:*

Other Similar products are found below :

STP16CPP05XTTR SCT2027CSSG KP22306WGA KP1199AWPA KP1199BWPA WS9088AS7P GN1628T BCT3236EGH-TR HT1628BRWZ KP1192SPA KP1182SPA KP1262FSPA KP1072LSPA KP1191SPA KP18001WPA KP1070LSPA KP1221SPA KP107ALSPA GN1640T MBI5253GP-A MBI5124GM-B WS90561T S7P WS9821B S7P WS9032GS7P LYT3315D M08888G-11 M08890G-13 SCT2001ASIG SCT2024CSOG SCT2024CSSG AL8400QSE-7 PR4401 PR4403 PCA9685PW STP16CPC05XTTR WS2821B PR4402 M08898G-13 RT8471GJ5 RT9284A-20GJ6E TLC59482DBQR ISL97634IRT14Z-TK AW36413CSR LP5562TMX WS2818B BCR401R BCR401U BCR402U SCT2004CSOG SCT2026CSOG