

Circuit Performance

- High current linear voltage conversion
- Adjustable output Voltage
- Scalable output current
- Excellent Load Regulation (0.1%)

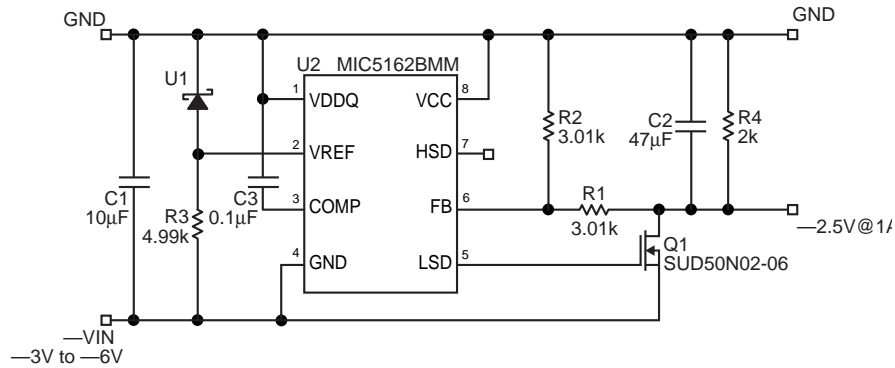
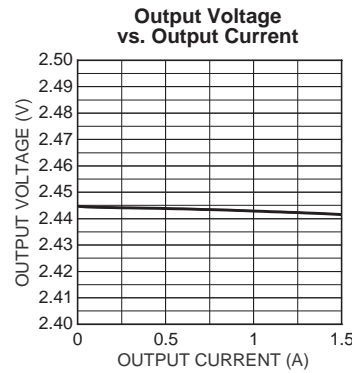


Figure 1. High Current Negative LDO Controller



Bill of Materials

Item	Part Number	Manufacturer	Description	Qty.
C1	12066D106MAT2	AVX ⁽²⁾	10uF Ceramic Capacitor X5R, 6.3V 1206	1
C2	12106D476MAT2	AVX ⁽²⁾	47uF Ceramic Capacitor X5R, 6.3V 1210	1
C3	0201ZD104MAT2	AVX ⁽²⁾	10nF Cermaic Capacitor 6.3V 0201	1
R1, R2	CRCW08053011F	Vishay Dale ⁽³⁾	3.01Kohm 1% 0805	2
R3	CRCW08054991F	Vishay Dale ⁽³⁾	4.99Kohm 1% 0805	1
R4	CRCW08052001F	Vishay Dale ⁽³⁾	2Kohm 1% 0805	1
Q1	SUD50N02-06	Vishay Siliconix ⁽⁴⁾	N-Channel Mosfet	1
U1	LM4041-AIM3	Micrel Semiconductor⁽¹⁾	Voltage Reference	1
U2	MIC5162BMM	Micrel Semiconductor⁽¹⁾	High Speed DDR terminator	1

1. **Micrel, Inc.:** www.micrel.com
2. **AVX:** www.avx.com
3. **Vishay Dale:** www.vishay.com
4. **Vishay Siliconix:** www.vishay.com

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