

Linear Voltage Regulator Selection Guide

Positive Regulators

I _{OUT}	PART NUMBER	DROPOUT VOLTAGE	MICRO-POWER	ADJUST-ABLE	FIXED OUTPUT VOLTAGES AVAILABLE	REMOTE SENSE	SHUTDOWN	DUAL OUTPUT	HIGH VOLTAGE	LOW BATT DETECTOR	SURFACE MOUNT PACKAGE
125mA	LT1020	0.4V	☐	☐		☐	☐			☐	SW
	LT1120	0.4V	☐	☐		☐	☐			☐	S8
	LT1120A	0.4V	☐	☐		☐	☐			☐	S8
150mA	LT1121	0.42V	☐	☐			☐				S8, SOT23
300mA	LT1521	0.5V	☐	☐	3, 3.3, 5		☐				S8, SOT23
500mA	LT317AH	3V		☐					(LT317AHVH)		
	LT1086	0.95V		☐							
800mA	LT1129	0.4V	☐	☐		☐	☐				S8, DD, SOT23
	LT1117	1.1V		☐							SOT23, DD
1A	LT1005	2V			5		☐	☐			
1.5A	LT317A	3V		☐					(LT317AHVK)		
	LT1086	1.3V		☐	2.85, 3.3, 3.6, 5, 12						DD
3A	LT323A	2.5V			5						
	LT350A	3V		☐							
	LT1035	2.2V			5V/3A, 5V/75mA		☐	☐			
	LT1036	2.4V			5V/75mA, 12V/3A		☐	☐			
	LT1085	1.3V		☐							DD (-3.3, -3.6 Only)
	LT1528	0.6V	☐	☐			☐				DD
	LT1529	0.5V	☐	☐	3.3, 5		☐				DD
4A/4.6A	LT1587	1.1V		☐	1.5, 3.3, 3.45, 3.6						DD
	LT1585	1.1V		☐	3.3, 3.38*, 3.45*, 3.6*						DD (Also 3.36, 3.45V)
5A	LT338A	3V		☐							
	LT1003	2.5V			5						
	LT1084	1.3V		☐	3.3, 5, 12						
	LT1087	1.3V		☐		☐					
	LT1585A	1.4V		☐	3.3						
7A	LT1580	0.5V		☐	2.5	☐					
	LT1584	1.1V		☐	3.3, 3.38, 3.45, 3.6						
7.5A	LT1083	1.3V		☐	5, 12						
10A	LT1038	3V		☐							
-400/800	LT1118	1V		☐	2.5, 2.85, 5		☐ (S8)				S8, SOT-23

Negative Regulators

500mA	LT337A	3V		☐					(LT337AHVH)		
	LT1175	0.5V	☐	☐	-5	☐	☐				S8, DC
1.5A	LT337A	3V		☐					(LT337AHVK)		
3A	LT1033	3V		☐							
	LT1185	0.8V		☐		☐	☐				

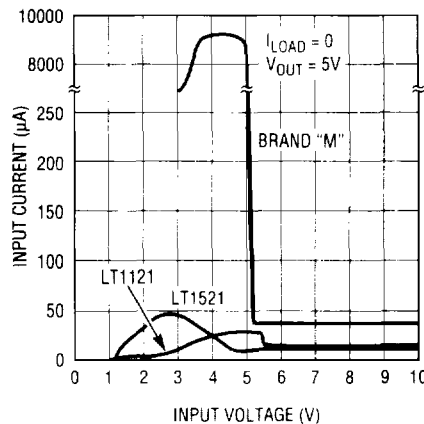
Discrete PNP Pass Element Driver and Regulators

	LT1123	0.45V				☐					SOT23
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Not all output voltage variations are available in the indicated surface mount packages. Please consult factory for availability.

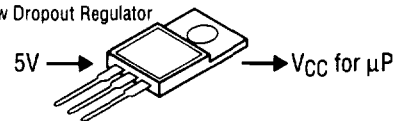
*The adjustable and fixed output 3.3V versions of the LT1585 are 4.6A rated, the rest are 4.0A.

LT1120A/LT1521: Lowest Quiescent Current, Best Efficiency



Easy 5V to V_{CC} for New Microprocessors

Low Dropout Regulator



I _{OUT}	2.5V	3.3V	3.38V	3.45V	3.6V
1.5A	—	LT1086-3.3	—	LT1086	LT1086-3.6
3A	—	LT1587-3.3	—	LT1587-3.45	LT1587-3.6
4A/4.6A	—	LT1585-3.3	LT1585-3.38	LT1585-3.45	LT1585-3.6
5A	—	LT1585A-3.3	LT1585A	LT1585A	LT1585A
7A	LT1580-2.5	LT1584-3.3	LT1584-3.38	LT1584-3.45	LT1584-3.6
7.5A	—	LT1083	—	LT1083	LT1083
10A	—	2 × LT1087	—	2 × LT1087	2 × LT1087

- Perfect for Pentium® Processors (Pentium is a registered trademark of Intel Corp.)
- SMT Packages up to 4.6A
- Three Terminal Regulators; No Design Required
- LT1580 Recommended For Up to 7A Applications; 540mV Dropout
- New LT1587-1.5, 3A for GTL+ Terminator