



Semtech's low dropout (LDO) product portfolio offers a broad range of high performing and feature-rich solutions. Our dropout linear regulator families include Single, Dual and Multiple LDO linear regulators, as well as General Purpose, Ultra-low Dropout, and Low-Noise. Our LDO voltage controller products consist of both single and multiple linear controllers.

Our low dropout regulator and low dropout controller ICs can

operate with input voltages ranging from a very low 1.4V to up to 36V. These devices are complemented by a very low dropout voltage and offer output currents from 60mA to 5A with fast transient response and excellent line and load regulation. Our low dropout LDO products are used in a variety of applications, from desktop motherboards and graphics cards to almost any battery powered system such as notebook PCs, cell phones, PDAs, handsets and more.

Low Dropout (LDO) Product Portfolio

Part Number	V _{in} (V)		Output Current A	Fixed V _{out} V	Adj. V _{out} (V)		Tolerance (+/- %)	Package	Dropout Voltage @ Max Output Current V	Ref Voltage V	PWRGD/Reset yes / no	Comments
	Min	Max			Min	Max						
TS31223	5	36	0.06	-	1.25	-	0.6	DFN22-8	0.55	1.2	no	Wide input up to 36V
TS14002	2.5	5.5	0.2	-	1.2	4.2	3	DFN22-8	0.5	-	no	Ultra-low nA level Iq
SC560	2.5	5.5	0.3	See datasheet	1.2	5	3	MLPQ-UT8	0.3	-	no	Dual output low noise
SC4213H	1.4	6	0.5	0.5	0.5	5.875	2	SOIC-8	0.15	0.5	no	Low input, low dropout
SC1202	2.65	7	0.6	3.3	1.3	5.7	2	SOT-223	1.3	1.25	no	.2% line regulation
EZ1117	2.65	7	0.8	2.5 2.85 3.3	1.3	5.7	2	TO-263 TO-220	1.2	1.25	no	-
SC4212	1.5	5.5	1	0.5	0.5	5	3	MLPD-8	0.4	0.5	no	-
SC4205	2.2	5.5	1	1.8 2.5	1.2	4.8	2	SOIC-8 EDP	0.3	1.2	no	-
SC4211	1.4	5.5	1	0.5 1	0.5	5	3	SOIC-8 EDP	0.25	0.5	no	-
EZ1086C	2.75	7	1.5	2.5 3.3 3.45	1.3	5.7	2	TO-263 TO-220	1.35	1.25	no	High performance 1.5A
EZ1086I	2.75	7	1.5	2.5 3.3 3.45	1.3	5.7	2	TO-263 TO-220	1.4	1.25	no	High performance 1.5A

Low Dropout (LDO) Product Portfolio (Continued)

Part Number	V _{in} (V)		Output Current	Fixed V _{out}	Adj. V _{out} (V)		Tolerance (+/- %)	Package	Dropout Voltage @ Max Output Current	Ref Voltage	PWRGD/Reset	Comments
	Min	Max	A	V	Min	Max	%		V	V	yes / no	
SC1565	2.2	5.5	1.5	1.8 2.5	1.2	4.8	2	SO-8 TO-220-5 TO-263-5	0.35	1.2	no	350mV dropout
SC4215A	1.4	5.5	2	0.5 1.2	0.5	3.8	3	SOIC-8 EDP	0.5	0.5	no	-
SC4215H	1.4	6	2	0.5	0.5	5.5	3	SOIC-8 EDP	0.5	0.5	no	-
EZ1085C	2.75	7	3	2.5 3.3	1.3	5.7	2	TO-263	1.35	1.25	no	-
SC1566	2.2	5.5	3	1.8 2.5	1.2	4.8	2	See datasheet	0.35	1.2	no	350mV dropout at 3A 10µA shutdown
SC4216H	1.45	5.5	3	-	-	-	-	SOIC-8 EDP	-	-	no	-
SC4217	1.8	5.5	3	-	1.24	5	2	TO-236-5	0.5	1.24	no	-
EZ1585C	2.75	7	4.6	2.5 3.3	1.3	5.7	2	TO-263 TO-220	1.3	1.25	no	4.6A output
EZ1581	2	7	5	2.5	1.3	5.7	1.5	TO-263-5 TO-220-5	0.6	1.25	no	5A output
SC1112	4.75	5.25	ext. FET	1.2 1.25 1.5	-	-	3	TSSOP16 SOIC16	-	-	yes	Triple output
SC1116	3	15	ext. FET	1.25	-	-	-	SOT23-6L	-	-	no	Supply for DDR applications
SC338	4.5	13.2	ext. FET	-	0.5	3.3	2.5	MSOP-10	-	0.5	yes	Dual output



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