

High PSRR LDOs



Dual Channel LDOs with High PSRR Performance

Package							DFN1612-8 (SOT1225)			
LD6935 Series										
Size (mm)							1.6 x 1.2 x 0.4 mm			
P _{tot} @ °C (mW)							600			
V _{IN} (V)	Quiescent current (μA) ***	Output noise typ (μVrms)	PSRR @ 1 kHz (dB)	I _{OUT} (mA)	V _{DO} drop @ 300 mA typ (mV)	Output voltages (V)*	LD6935L/xxH High ohmic output stage	LD6935L/xxP Pull down ** output stage	LD6935L/xxHD High ohmic & delay circuit	LD6935L/xxPD Pull down ** & delay circuit
1.75 - 5.5	30	50	80	2 x 300	220	1.2 / 2.8	LD6935L/1228H	LD6935L/1228P	-	-
						1.5 / 2.8	LD6935L/1528H	LD6935L/1528P	-	-
						2.8 / 1.8	LD6935L/2818H	LD6935L/2818P	LD6935L/2818HD	LD6935L/2818PD
						2.8 / 2.6	LD6935L/2826H	LD6935L/2826P	-	-
						2.8 / 2.8	LD6935L/2828H	LD6935L/2828P	LD6935L/2828HD	LD6935L/2828PD
						3.0 / 1.8	LD6935L/3018H	LD6935L/3018P	LD6935L/3018HD	LD6935L/3018PD
						3.0 / 2.6	LD6935L/3026H	LD6935L/3026P	-	-
						3.0 / 2.8	LD6935L/3028H	LD6935L/3028P	LD6935L/3028HD	LD6935L/3028PD
						3.0 / 3.0	LD6935L/3030H	LD6935L/3030P	LD6935L/3030HD	LD6935L/3030PD
						3.1 / 3.1	LD6935L/3131H	LD6935L/3131P	-	-
						3.3 / 1.8	LD6935L/3318H	LD6935L/3318P	-	-
						3.3 / 2.6	LD6935L/3326H	LD6935L/3326P	-	-
						3.3 / 2.8	LD6935L/3328H	LD6935L/3328P	LD6935L/3328HD	LD6935L/3328PD
						3.3 / 3.0	LD6935L/3330H	LD6935L/3330P	LD6935L/3330HD	LD6935L/3330PD
						3.3 / 3.3	LD6935L/3333H	LD6935L/3333P	-	-
						3.6 / 3.3	-	-	-	-

Applications

- ▶ Mobile phones
- ▶ Tablet PCs
- ▶ DSCs
- ▶ Video cameras
- ▶ Game pads
- ▶ Notebooks, netbooks
- ▶ Ultrabooks
- ▶ Portable Media Player

Feature options

- ▶ H-Type: High ohmic when disabled
- ▶ P-Type: Pull-down/ Auto-discharge when disabled
- ▶ Other output voltages are available on request

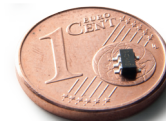
Single Channel LDOs with High PSRR Performance

Package							DFN1010C-4 (SOT1194)		SOT753	
LD68x5 Series										
Size (mm)							1.0 x 1.0 x 0.55 mm		2.9 x 1.5 x 1.0	
P _{tot} @ °C (mW)							400		800	
V _{IN} (V)	Quiescent current (μA)	Output noise typ (μVrms)	PSRR @ 1 kHz (dB)	I _{OUT} (mA)	V _{DO} drop @ 150 mA typ (mV)	Output voltage (V)*	LD6805K/xxH High ohmic output stage	LD6805K/xxP Pull down ** output stage	LD6815TD/xxH High ohmic output stage	LD6815TD/xxP Pull down ** output stage
2.3 - 5.5	35	40	75	150	250	1.2	LD6805K/12H	LD6805K/12P	LD6815TD/12H	LD6815TD/12P
						1.3	LD6805K/13H	LD6805K/13P	-	-
						1.4	LD6805K/14H	LD6805K/14P	-	-
						1.5	LD6805K/15H	LD6805K/15P	LD6815TD/15H	LD6815TD/15P
						1.6	LD6805K/16H	LD6805K/16P	-	-
						1.8	LD6805K/18H	LD6805K/18P	LD6815TD/18H	LD6815TD/18P
						2.0	LD6805K/20H	LD6805K/20P	-	-
						2.1	LD6805K/21H	LD6805K/21P	-	LD6815TD/21P
						2.2	LD6805K/22H	LD6805K/22P	-	-
						2.3	LD6805K/23H	LD6805K/23P	-	-
						2.5	LD6805K/25H	LD6805K/25P	LD6815TD/25H	LD6815TD/25P
						2.8	LD6805K/28H	LD6805K/28P	LD6815TD/28H	LD6815TD/28P
						2.9	LD6805K/29H	LD6805K/29P	LD6815TD/29H	LD6815TD/29P
						3.0	LD6805K/30H	LD6805K/30P	LD6815TD/30H	LD6815TD/30P
						3.1	LD6805K/31H	LD6805K/31P	-	-
						3.3	LD6805K/33H	LD6805K/33P	LD6815TD/33H	LD6815TD/33P
						3.6	LD6805K/36H	LD6805K/36P	LD6815TD/36H	LD6815TD/36P

* Other output voltages are available on request ** With auto-discharge function when disabled *** Per output channel



Ultra Low-Dropout LDOs



Low Voltage LDO Linecard

Package							WLCSP 4		DFN1410-6 (SOT886)		SOT753	
LD68x6 Series												
Size (mm)							0.76 × 0.76 × 0.47		1.45 × 1.0 × 0.5		2.9 × 1.5 × 1.0	
P _{tot} @ °C (mW)							650		450		800	
V _{IN} (V)	Quiescent current (μA)	Output noise typ (μVrms)	PSRR @ 1 kHz (dB)	I _{OUT} (mA)	V _{DO} drop @ 200 mA typ (mV)	Output voltage (V)*	LD6806CX4/xxH High ohmic output stage	LD6806CX4/xxP Pull down ** output stage	LD6806F/xxH High ohmic output stage	LD6806F/xxP Pull down ** output stage	LD6806TD/xxH High ohmic output stage	LD6806TD/xxP Pull down ** output stage
2.3 - 5.5	70	30	55	150	45	1.2	LD6816CX4/12H	LD6816CX4/12P	-	-	-	-
						1.3	LD6816CX4/13H	LD6816CX4/13P	-	-	-	-
						1.4	LD6816CX4/14H	LD6816CX4/14P	-	-	-	-
						1.5	LD6816CX4/15H	LD6816CX4/15P	-	-	-	-
						1.6	LD6816CX4/16H	LD6816CX4/16P	-	-	-	-
						1.8	LD6816CX4/18H	LD6816CX4/18P	-	-	-	-
						2.0	LD6816CX4/20H	LD6816CX4/20P	-	-	-	-
						2.1	LD6816CX4/21H	LD6816CX4/21P	-	-	-	-
						2.2	LD6816CX4/22H	LD6816CX4/22P	-	-	-	-
						2.3	LD6816CX4/23H	LD6816CX4/23P	-	-	-	-
						2.5	LD6816CX4/25H	LD6816CX4/25P	-	-	-	-
						2.7	LD6816CX4/27H	LD6816CX4/27P	-	-	-	-
						2.8	LD6816CX4/28H	LD6816CX4/28P	-	-	-	-
						2.9	LD6816CX4/29H	LD6816CX4/29P	-	-	-	-
						3.0	LD6816CX4/30H	LD6816CX4/30P	-	-	-	-
						3.3	LD6816CX4/33H	LD6816CX4/33P	-	-	-	-
						3.6	LD6816CX4/36H	LD6816CX4/36P	-	-	-	-
				200	60	1.2	LD6806CX4/12H	LD6806CX4/12P	LD6806F/12H	LD6806F/12P	LD6806TD/12H	LD6806TD/12P
						1.3	LD6806CX4/13H	LD6806CX4/13P	LD6806F/13H	LD6806F/13P	LD6806TD/13H	LD6806TD/13P
						1.4	LD6806CX4/14H	LD6806CX4/14P	LD6806F/14H	LD6806F/14P	LD6806TD/14H	LD6806TD/14P
						1.5	LD6806CX4/15H	LD6806CX4/15P	LD6806F/15H	LD6806F/15P	LD6806TD/15H	LD6806TD/15P
						1.6	LD6806CX4/16H	LD6806CX4/16P	LD6806F/16H	LD6806F/16P	LD6806TD/16H	LD6806TD/16P
						1.8	LD6806CX4/18H	LD6806CX4/18P	LD6806F/18H	LD6806F/18P	LD6806TD/18H	LD6806TD/18P
						2.0	LD6806CX4/20H	LD6806CX4/20P	LD6806F/20H	LD6806F/20P	LD6806TD/20H	LD6806TD/20P
						2.1	LD6806CX4/21H	LD6806CX4/21P	LD6806F/21H	LD6806F/21P	LD6806TD/21H	LD6806TD/21P
						2.2	LD6806CX4/22H	LD6806CX4/22P	LD6806F/22H	LD6806F/22P	LD6806TD/22H	LD6806TD/22P
						2.3	LD6806CX4/23H	LD6806CX4/23P	LD6806F/23H	LD6806F/23P	LD6806TD/23H	LD6806TD/23P
						2.5	LD6806CX4/25H	LD6806CX4/25P	LD6806F/25H	LD6806F/25P	LD6806TD/25H	LD6806TD/25P
						2.7	LD6806CX4/27H	LD6806CX4/27P	LD6806F/27H	LD6806F/27P	LD6806TD/27H	LD6806TD/27P
						2.8	LD6806CX4/28H	LD6806CX4/28P	LD6806F/28H	LD6806F/28P	LD6806TD/28H	LD6806TD/28P
						2.9	LD6806CX4/29H	LD6806CX4/29P	LD6806F/29H	LD6806F/29P	LD6806TD/29H	LD6806TD/29P
						3.0	LD6806CX4/30H	LD6806CX4/30P	LD6806F/30H	LD6806F/30P	LD6806TD/30H	LD6806TD/30P
						3.3	LD6806CX4/33H	LD6806CX4/33P	LD6806F/33H	LD6806F/33P	LD6806TD/33H	LD6806TD/33P
						3.6	LD6806CX4/36H	LD6806CX4/36P	LD6806F/36H	LD6806F/36P	LD6806TD/36H	LD6806TD/36P
				300	90	1.2	LD6836CX4/12H	LD6836CX4/12P	-	-	LD6836TD/12H	LD6836TD/12P
						1.3	LD6836CX4/13H	LD6836CX4/13P	-	-	LD6836TD/13H	LD6836TD/13P
						1.4	LD6836CX4/14H	LD6836CX4/14P	-	-	LD6836TD/14H	LD6836TD/14P
						1.5	LD6836CX4/15H	LD6836CX4/15P	-	-	LD6836TD/15H	LD6836TD/15P
						1.6	LD6836CX4/16H	LD6836CX4/16P	-	-	LD6836TD/16H	LD6836TD/16P
						1.8	LD6836CX4/18H	LD6836CX4/18P	-	-	LD6836TD/18H	LD6836TD/18P
						2.0	LD6836CX4/20H	LD6836CX4/20P	-	-	LD6836TD/20H	LD6836TD/20P
						2.1	LD6836CX4/21H	LD6836CX4/21P	-	-	LD6836TD/21H	LD6836TD/21P
						2.2	LD6836CX4/22H	LD6836CX4/22P	-	-	LD6836TD/22H	LD6836TD/22P
						2.3	LD6836CX4/23H	LD6836CX4/23P	-	-	LD6836TD/23H	LD6836TD/23P
						2.5	LD6836CX4/25H	LD6836CX4/25P	-	-	LD6836TD/25H	LD6836TD/25P
						2.7	LD6836CX4/27H	LD6836CX4/27P	-	-	LD6836TD/27H	LD6836TD/27P
						2.8	LD6836CX4/28H	LD6836CX4/28P	-	-	LD6836TD/28H	LD6836TD/28P
						2.9	LD6836CX4/29H	LD6836CX4/29P	-	-	LD6836TD/29H	LD6836TD/29P
						3.0	LD6836CX4/30H	LD6836CX4/30P	-	-	LD6836TD/30H	LD6836TD/30P
						3.3	LD6836CX4/33H	LD6836CX4/33P	-	-	LD6836TD/33H	LD6836TD/33P
						3.6	LD6836CX4/36H	LD6836CX4/36P	-	-	LD6836TD/36H	LD6836TD/36P

* Other output voltages are available on request ** With auto-discharge function when disabled

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