

# Product Selection Guide

2020

Global Mixed-mode Technology Inc.  
Green products



Analog IC Solutions

Power Management Partner

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# Amplifier Series

## Operational Amplifier

Part Number	V <sub>DD</sub> (V)		CH	I <sub>OUT</sub> (mA)	S/R (V/us)	BW (M Hz)	Offset (mV)	Note	Package
	min.	max.							
G1214	2.2	7	1	66	6.5	6.5	5	Rail-to-Rail Input/Output	SC-70-5/SOT-23-5
G1577	4.5	19.5	1	400	80	35	3	Rail-to-Rail Output	TDFN3X3-8
G1562	4.5	20	1	65	150	30	2	Rail-to-Rail Input/Output	TSSOP-23-5
G1582	4.5	20	1	400	50	35	3	Rail-to-Rail Input/Output	TDFN3X3-8/SOT-23-5
G1224	2.2	5.5	2	66	6	2.5	5	Rail-to-Rail Input/Output	MSOP-8/SOP-8
G1563	4.5	20	2	65	150	30	2	Rail-to-Rail Input/Output	MSOP-8
G1583	4.5	20	2	400	50	35	3	Rail-to-Rail Output	MSOP-8/TDFN3X3-8
G2904	3	30	2	40	0.6	1.1	2		TDFN2X2-8/MSOP-8
G1244	3	5.5	4	66	6	2.5	5	Rail-to-Rail Input/Output	TSSOP-14
G1564	4.5	20	4	65	150	30	2	Rail-to-Rail Input/Output	TSSOP-14
G1584A	4.5	20	4	300	30	35	3	Rail-to-Rail Output	TSSOP-14(FD)

## Comparator

Part Number	V <sub>DD</sub> (V)		CH	I <sub>O</sub> (uA)	T <sub>PHL</sub> (ns)	T <sub>PLH</sub> (ns)	Offset (mV)	Note	Package
	min.	max.							
G1361	1	5.5	1	13	300	300	7	Push-Pull Output	AQFN1X1.45-6
G1363	0.8	5.5	1	13	300	300	7	Open Drain Output	SOT23-5/WDFN1.6X1.6-6
G1362	1	5.5	2	26	300	300	7	Open Drain Output	TDFN2X2-8
G1362A	1	5.5	2	26	300	300	7	Push-Pull Output	AQFN1.5X1.5-8

## Integrated Buffer

Part Number	V <sub>DD</sub> (V)		CH	I <sub>OUT</sub> (mA)	S/R (V/us)	BW (M Hz)	I <sub>SC</sub> (mA)	Note	Package
	min.	max.							
G1625	7	18	1	100	23	20	270	SMBus, Rail-to-Rail Output	TDFN3X3-8
G1626	7	18	1	100	--	--	--	SMBus, V <sub>COM</sub> REF	TDFN3X3-8
G1614	9	20	12+1+1	25, 100	16, 50	10	100, 300	Rail-to-Rail Output, SMBus, 2 Banks REG, CRC	QFN4X4-24
G1615	9	20	12+1+1+1	40, 100	16, 50	30	100, 300	Rail-to-Rail Output, SMBus, HAVDD, Repair OP, CRC	QFN4X4-24
G1632	6.5	18	14+1	25, 100	16, 20	10	100, 180	Rail-to-Rail Output, 2 Banks REG	QFN5X5-32
G1620	6.5	18	14+1	25, 100	20, 20	10, 20	75, 140	Rail-to-Rail Output, SMBus, 2 Banks MTP, Checksum	TQFN5X5-32
G1621	6.5	18	14+1	25, 100	20, 20	10, 20	75, 140	Rail-to-Rail Output, SMBus, 2 Banks MTP, Checksum	TQFN4X4-24/QFN5X5-32
G1606	7	20	16+2	25, 100	16, 50	30	100, 300	Rail-to-Rail Output, SMBus, 2 Banks MTP	QFN5X5-28

## Level Shifter

Part Number	V <sub>DD</sub> (V)		CH	V <sub>HIGH</sub> (V)	V <sub>LOW</sub> (V)	Data Rate (Mbps)	Charge Sharing	Note	Package
	min.	max.							
G2129	1.2	5.5	1-2-4	5	1.2	100	--	1-2-4-Bit Bidirectional Level Shift, Push-Pull I/O, Data rate 100Mbps	SC-70-6/AQFN1.7X2.0-12
G2129B	1.2	5.5	1-2-4	5	1.8	24 2	--	1-2-4-Bit Bidirectional Level Shift, Push-Pull I/O, Data rate 24Mbps, Open-Drain I/O, Data rate 2Mbps	SC-70-6/ADFN1.0X1.4-8/AQFN1.7X2.0-12
G2587	2.6	5.5	7	40	-30	--	Yes		TQFN4X4-28
G2581	2.6	5.5	9	40	-30	--	No	GPM	QFN5X5-32/QFN4X4-32
G2583B	--	--	10	40	-20	--	Yes	GPM	TQFN4X4-28
G2590	16	40	10-11	40	-20	--	Yes	GPM	TQFN4X4-32
G2592	2.6	5.5	12	40	-15	--	Yes		TQFN4X4-32

## Analog Switch Series

### Analog Switch

Part Number	V <sub>in</sub> (V)		R <sub>ON</sub> (Ω)	BW (MHz)	T <sub>ON</sub> (ns)	T <sub>OFF</sub> (ns)	I <sub>SUPPLY</sub> (μA)	Note	Package
	min.	max.							
G3202B	1.65	5.5	1	80	19	17	0.01	Single SPDT	SC-70-6
G3104	1.65	5.5	6	250	1.6	25	0.1	Dual SPST	ADFN3X2-8
G3203	2.7	5.5	0.35	20	16	16	0.2	Dual SPDT	TDFN3X3-10
G3204/A	2.3	5.5	10	230	5	4.5	1	Quad SPDT	TSSOP-16

## Power Switch & Load Switch Series

### 1-CH Power Switch & 1-CH Load Switch

Part Number	V <sub>in</sub> (V)		R <sub>ON</sub> (mΩ)	V <sub>OUT</sub> Rising (ms)	I <sub>OUT</sub> (A)	Flag	Dis-charge (Ω)	Note	Package
	min.	max.							
G5027C	0.7	4	5.5	0.01	--	N	220	Need a 5V VBIAS, @V <sub>OUT</sub> =1.05V	TDFN3X3-8
G5409/A	0.5	5.5	10	ADJ	ADJ	N	200	I <sub>OUT</sub> Programmable up to 7A, Need a VBIAS	WQFN2X2-12
G5192	1.5	5	25	0.13	--	N	250	RON=68mΩ @VIN =1.5V	WLCSPP2X2-4
G5017	1	3.6	26	0.13	--	N	80	RON=56mΩ @VIN =1.2V	WLCSP2X2-4
G5029A	0.9	5.5	22	ADJ	--	N	220	Need a 5V VBIAS, @V <sub>OUT</sub> =1.05V	TDFN2X2-8
G5161	4	20	50	1.5	--	Y	N		TSOT-23-8 FC
G529	2.7	5.5	70	1	1.1	Y	N	Fast SCP, HML 2.0 V <sub>OUT</sub> Reverse-Current Protection	SOT-23-6
G5287	1.5	5.5	80	1	--	N	R	External discharging	TDFN1.6X1.6-6
G2176	4.5	24	80	V <sub>in</sub> /4	ADJ	N	950	UL, CB, OC & OT Latched OFF mode	TDFN2X2-6
G5245A	2.7	5.5	110	2.5	1.5	N	75	LVDS or Panel Switch	SOT-23-5
G5244	2.7	5.5	120	1.9	2	N	R	V <sub>OUT</sub> External discharging resistor	SOT-23-5/ ADFN1.5X1.5-6
G3710/1	2.9	5.5	34	1.8	Sele-table	Y	500	UL, CB, USB Type-C, DFP Controller, FAULT#, DEBUG#, AUDIO#, POL#, UFP#, LD_DET#, G3711 VBUS & CC Voltage Tolerance 23V	TQFN3X4-20
G3712	4	5.5	35	2	ADJ	Y	--	UL, CB, USB Type-C, Fast role swap, VBUS Voltage Tolerance 23V	WLCSPP4X4-16
G518	2.7	5.5	50	1.5	3.1/ADJ	Y	Y	UL, CB, USB TYPE-C, G518B ADJ, VBUS Voltage Tolerance 24V	TSOT-23-5 FC/ TSOT-23-6
G516	4	20	50	1.5	3.7	Y	N	UL, CB, USB TYPE-C	TSOT-23-8 FC
G517x G517A	2.7	5.5	50/70	1.5	3.1 ADJ	Y	150 600	UL, CB, USB TYPE-C, Fast SCP, V <sub>OUT</sub> Reverse-Current Protection, BCDEFGH I <sub>OUT</sub> =0.3/0.6/1.1/1.6/2.2/3.1/2.7 A BCDEFGH R <sub>ON</sub> =40~75 mΩ	SOT-23-5/SOT-23-6/ TSOT-23-6/MSOP-8/ TDFN2X2-6/ WDFN2X2-6
G524x	2.7	5.5	70	1.5	2.2	Y	150/N	UL, CB, Fast SCP, V <sub>OUT</sub> Reverse-Current Protection, A/B/C/D I <sub>OUT</sub> =1.9/2.2/1.7/1.2 A	SOT-23-5/ TSOT-23-6/ MSOP-8
G527	2.7	5.5	70	1.4	ADJ	Y	75	UL, CB, Fast SCP, V <sub>OUT</sub> Reverse-Current Protection	TSOT-23-6/ MSOP-8(FD)
G5250x	2.7	5.5	85	1.4	2	Y	N	UL, CB, /K/I, H/G/F/I, M/N/I, S/I I <sub>OUT</sub> =0.7/1.1/1.5/2 A	SOT-23-5

### 2-CH Power Switch & 2-CH Load Switch

Part Number	V <sub>in</sub> (V)		R <sub>ON</sub> (mΩ)	V <sub>OUT</sub> Rising (ms)	I <sub>OUT</sub> (A)	OC Flag	Dis-charge (Ω)	Note	Package
	min.	max.							
G2898	0.7	5.5	17	ADJ	6	N	250	Need a 2.5V ~ 5.6V VBIAS	TDFN2X3-14
G2898A	0.7	5.5	17	ADJ	6	N	50	Need a 2.5V ~ 5.6V VBIAS	TDFN2X3-14
G2895	2.7	5.5	120	2	0.2/0.6	N/Y	150	V <sub>in</sub> Range 2.7V~5.5V with a VB of 3V/5V Recovery Mode & Latched Mode	TSOT-23-6/ TDFN2X2-10

### Electronic-Fuse Protection Switch

Part Number	V <sub>CC</sub> (V)		R <sub>ON</sub> (mΩ)	V <sub>OUT</sub> Rising (us)	I <sub>limit</sub> (A)	I <sub>OUT</sub> (A)	V <sub>OVP</sub> Clamping (V)	Note	Package
	min.	max.							
G5288B	2.7	5.85	40	ADJ	ADJ	4.2	5.85	5V/3.3V E-Fuse	TDFN3X3-10
G5288A	3.6	6.65	68	ADJ	ADJ	3.6	6.65	5V E-Fuse	TDFN3X3-10
G5288E	2.7	5.85	40	ADJ	ADJ	4.2	5.85	5V E-Fuse	DFN3X3-10
G5288D	7.2	10	44	ADJ	ADJ	3.6	10	9V E-Fuse	TDFN3X3-10
G5288	8.5	15	44	ADJ	ADJ	3.6	15	12V E-Fuse	TDFN3X3-10
*G5289	4.5	40	15	ADJ	ADJ	7	ADJ	40V E-Fuse	TDFN3X3-10

\*Coming soon

## DC-DC Series

### Synchronous (Quasi-PWM) Step Down Controller

Part Number	V <sub>in</sub> (V)		PG	F <sub>SW</sub> (kHz)	FB (V)	V <sub>O_MAX</sub> (V)	OVP (% , us)	Note	Package
	min.	max.							
G5415A	4.5	26	YES	ADJ	0.8	5.5	--	V5V, EN, PG, UVP & OTP(non-latch)	TQFN3X3-16
G5318	4.5	28	YES	ADJ	0.7	2.6	120, 20	EN, UVP, OCP, VOUT Adjustable, 1.5ms V <sub>OUT</sub> Servo Soft Start	TDFN3X3-10
G5616B	2.0	24	YES	ADJ	0.75	3.6	115, 30	DDR2/3/3L/4, LPDDR3, 1.5A LDO(VTT), VTT Tracking, VTTREF	TQFN3X3-20
G5619/A	2.0	24	YES	ADJ	0.75 0.675	3.6	115, 30	DDR2/3/3L/4, LPDDR3, 1.5A LDO(VTT), G5619 non-tracking; G5619A Tracking, VTTREF, FB=0.75V@VID=0V	TQFN3X3-20

### Point Of Load (Synchronous Quasi-PWM Step Down Converter)

Part Number	V <sub>in</sub> (V)		I <sub>OUT</sub> (A)	F <sub>SW</sub> (kHz)	FB (V)	HS <sub>RON</sub> (mΩ)	LS <sub>RON</sub> (mΩ)	Note	Package
	min.	max.							
G5416 G5496	2	26	10.5	ADJ	0.75	20	8.5	G5496 for DDR2/3/3L & LPDDR3, G5416 for DDR4 with VPP 2.5V/1A, 1.5A LDO VTT, 10mA VTTREF, S3, S5, PGOOD, Low I <sub>Q</sub> , MLCC	QFN4X4-30
G5497	4.5	26	10.5	ADJ	0.75	20	8.5	LPDDR4X, 0.6V/1.5A LDO (VTX)	QFN4X4-30
G5334	4.5	20	15	ADJ	0.60	13	6.5	EN, PGOOD	QFN4X4-23
G5337	4.5	21	6	ADJ	Selectable	20	20	VOUT Line-Compensation, USB PD, Non-latched mode, EN, PGOOD, MLCC, VOUT = 5.05V/6V/7V/8V/9V/12V/15V/20V	QFN4X4-32
G5329B G5329 G5329A	4.5	26	5 8 12	ADJ	0.80	30 30 20	30 15 8.5	VOUT 0.8V to 5.5V, Build in V5V, Low I <sub>Q</sub> , Non-latched mode, EN, PGOOD, MLCC, G5329B 24-Pin, G5329/A 32-Pin	QFN3X3-24/ QFN4X4-32
G5332A	3.0	28	8	ADJ	0.75	40	20	EN, PGOOD, Low I <sub>Q</sub>	QFN3X3-21
G5312	4.5	28	8	ADJ	0.75	20	20	With 5V Supply, EN, PGOOD	QFN4X4-28
G5335A/D G5335E G5335C/F	4.5	28	6 8 10	ADJ	0.80	20	20 8.5 8.5	EN, PGOOD, MLCC, Soft start adjustable G5335A/E 23-Pin, G5335C/D/F 22-Pin	QFN4X4-23/ QFN4X4-22
G5330A	6	28	10	ADJ	1.25	20	8.5	5V Power Rail, 5VLDO Switchover, EN, PGOOD, Low I <sub>Q</sub>	QFN4X4-28
G5309	4.5	28	10	ADJ	0.75	20	8.5	With 5V Supply, EN, PGOOD	QFN4X4-28
G5310	4.5	28	10	ADJ	0.75	20	8.5	EN, PGOOD, ILIMIT is set by a resistor	QFN4X4-28
G5436	4.5	28	12	ADJ	0.80	20	8.5	EN, PGOOD, MLCC, Soft start adjustable	QFN4X4-23
G5426 G5426A	10	36	6 12	ADJ	5.10	24 12	12 6	VOUT Line-Compensation, Build in V5V, Non-latched mode, EN, PGOOD, MLCC, Comp. Rate S0S1=80/100/120/60 mV	QFN4X4-28/ TQFN5X5-32
*G2189	4.8	40	5	ADJ	0.80	20	20	VOUT Line-Compensation, USB PD, FSS Non-latched mode, Auto PSM/PWM, Fix PWM, OVP/UVP/OTP/OCP/SCP	QFN3X3-16

### Pre Gate Driver and DrMOSFET

Part Number	V <sub>CC</sub> (V)		V <sub>in</sub> (V)	Drive Capability HS(Ω) LS(Ω)				HS <sub>RON</sub> (mΩ)	LS <sub>RON</sub> (mΩ)	Note	Package
	min.	max.		Source	Sink	Source	Sink				
G5403	2.7	5	24	3	1	3	1	--	--	HB Pre Gate Driver, Chare-Pump for VCC, EN, PWM, UVLO, STP, OTP	TQFN3X3-16
G5438	4.5	5.5	5.5	5	--	1	0.5	--	--	FB Pre Gate Driver, Tri-State PWM Input, EN, PWM, UVLO, STP, OTP, ADJ Deadtime	TQFN3X3-16
G6090	4.5	5.5	24	1	1	1	0.5	--	--	HB Pre Gate Driver, Tri-State PWM Input, EN, PWM, UVLO, STP, OTP	TDFN2X2-8
G6091	4.5	22	24	2A	1.4	2A	1.4	--	--	HB Pre Gate Driver, Tri-State PWM Input, EN, PWM, UVLO, STP, OTP	MSOP-10
M2105A/B	4.5	22	24	2A	1.4	2A	1.4	--	--	HB Pre Gate Driver, Tri-State PWM Input, EN, PWM, UVLO, STP, OTP, ADJ Deadtime	MSOP-10/ SOP-8(FD)
G5421 G5421C	4.5	5.5	25	--	--	--	--	20	8.7 18	HB DrMOSFET, Tri-State PWM Input, EN, PWM, UVLO, STP, OTP, ADJ OCP, Skip	QFN4X4-23
G2186	--	--	15	--	--	--	--	17	17	FB DrMOSFET, Integrated 5.2V LDO, EN, PWM1/2, UVLO, SCP, OTP	AQFN3X3-16 FC

\*Coming soon

Asynchronous Step Down Converter									
Part Number	V <sub>in</sub> (V)		I <sub>OUT</sub> (A)	F <sub>SW</sub> (kHz)	FB (V)	D <sub>max</sub> (%)	I <sub>Q</sub> (uA)	Note	Package
	min.	max.							
*G2063A	4.5	60	0.6	700	0.765	95	28	CB, GND, FB, /SHDN, VIN, SW	TSOT-23-6
*G2063B	4.5	60	0.6	1400	0.765	95	28	CB, GND, FB, /SHDN, VIN, SW	TSOT-23-6
G5764	4.5	28	3	380	1.22	90	1500	BS, IN, LX, GND, FB, COMP, EN, SS	SOP-8(FD)

Synchronous Step Down Converter									
Part Number	V <sub>in</sub> (V)		I <sub>OUT</sub> (A)	F <sub>SW</sub> (kHz)	FB (V)	D <sub>max</sub> (%)	I <sub>Q</sub> (uA)	Note	Package
	min.	max.							
G5725	2.5	6	1	1000	0.6	100	50	EN, GND, LX, VIN, VFB, SS=2ms	T/SOT-23-5
G5728	2.5	6	1	1000	0.6	100	50	EN, GND, LX, VIN, VFB, SS=0.6ms	TSOT-23-5
G5728B	2.5	6	1	1400	0.6	100	50	EN, GND, LX, VIN, VFB, SS=0.6ms	TSOT-23-5
G5695	2.5	6	1	1400	0.6	100	50	VIN, GND, EN, FB, LX, SS=2ms, NC, EN, VIN, LX, GND, VFB, SS=2ms	T/SOT-23-5/ TWDFN2X2-6
G5691	2.5	5.5	1	1500	0.6	100	50	NC, EN, VIN, LX, GND, FB, SS=2ms, V <sub>OUT</sub> = ADJ & 1.2V & 3.3V	TDFN2X2-6
AT1691	2.5	5.5	1	1500	0.6	100	50	NC, EN, VIN, LX, GND, FB	TDFN2X2-6
M2261	2.55	6	1	1600	0.6	--	25	LX, NC, FB, EN, VIN, GND, SS=0.5ms	TDFN2X2-6
G2261	2.55	6	1	1600	0.6	--	25	NC, EN, VIN, LX, GND, FB, SS=0.5ms	TDFN2X2-6
AT1526	2.5	6	2	1000	0.8	100	450	VCC, REF, GND, FB, EN, PGND, LX, VIN	SOP-8
G2262x	2.55	6	2	1600	0.6	--	25	FB, GND, VIN, LX, EN, OUT, SS=0.5ms G2262B Force PWM Selectable, G2262C Force PWM Only	SOT-563/ ADFN1X1.5-6
AT1528/9	2.5	6	2/3.2	1000	0.8	100	450	VCC, REF, GND, FB, EN, PGND, LX, VIN, V <sub>IN</sub> OVP(V <sub>CC</sub> > 6.3V)	SOP-8/ SOP-8(FD)
G2822	2.7	6.5	2/3	1000	0.6	100	50	EN, GND, LX, VIN, NC/PG, FB, SS=1ms, SCP Non latched, A/B/C/D/H SCP Latched, A/D/H discharge R 1.8kΩ, B/C discharge R 50Ω	SOT-23-6/ T/SOT-23-5/ TDFN2X2-8/ TDFN3X3-10
G2823A/D	2.7	6.5	3	1000	0.6	100	50	NC, SW*2, POK, EN, FB, NC, VCC, VIN*2	TDFN3X3-10
AT1530	2.5	6	3.2	1000	0.8	100	450	VCC, REF, GND, FB, EN, PGND, LX, VIN, V <sub>IN</sub> OVP(V <sub>CC</sub> > 6.3V), OC latched	SOP-8(FD)
G5694	2.5	6	3.2	1000	0.8	100	450	VCC, REF, GND, FB, EN, PGND, LX, VIN	SOP-8(FD)/ TDFN3X3-8
G2264/A	2.6	5.5	3	1500	0.45	100	17	COT, EN, P/AGND, FB, VOS, LX, VIN, PG	SOT-23-6/ TDFN2X2-8
G2273	2.6	5.5	3	1500	0.6	100	17	COT, VIN*2, LX*2, PGND*2, FB, EN, PG	AQFN2X2-12
G2273A	2.6	5.5	3	1500	0.6	100	17	COT, EN, GND, LX, VIN, PG, FB	SOT-23-5/6 TDFN2X2-6/8
G2275	2.6	6	3	2400	0.8	100	17	COT, EN, PG, FB, VOS, GND, SW, VIN	ADFN2X2-7
*G5404	4.3	17	4	500	0.6	80	400	GND, SW, VIN, VFB, EN, VBST	TSOT-23-6
*G5405	4.3	17	5	500	0.6	80	400	GND, SW, VIN, VFB, EN, VBST	TSOT-23-6
G2832	4.5	18	2	500	0.6	--	500	BS, GND, FB, EN, VIN, SW	SOT-23-6
G5791	4.5	24	2/3	340	0.92/ 1.22	90	3000	BS, IN, LX, GND, FB, COMP, EN, SS	SOP-8(FD)
G5794/5	4.5	24	2/3	340	0.92	90	3000	BS, IN, LX, GND, FB, COMP, EN, SS	SOP-8/ SOP-8(FD)

Auto Buck-Boost Converter									
Part Number	V <sub>in</sub> (V)		V <sub>o</sub> (V)		I <sub>OUT</sub> (A)	F <sub>SW</sub> (MHz)	FB (V)	Note	Package
	min.	max.	min.	max.					
G2224	2.8	5.5	2.8	5.5	3	2.4	0.5	Auto-Transition Buck and Boost Mode	TDFN3X4-14
G2228/A	1.8	5.5	2.8	5.5	1.5	2.4	0.5	Auto-Transition Buck and Boost Mode	WLCSP2X4-8/ TDFN3X4-10

Switching Charger									
Part Number	V <sub>in</sub> (V)		CC <sub>MAX</sub> (A)	F <sub>SW</sub> (k Hz)	Boost V <sub>O</sub> (V)	Boost I <sub>SW</sub> (A)	Interface	Note	Package
	min.	max.							
G2230/A	4.2	6.2	2	1500	5	4.6	i <sup>2</sup> C	DPPM, Boost for USB OTG, NTC TS, OTP, Safety timer, Power key function, USB Battery Charging port	WLCSP4X5-20
G2246	4	5.5	2.5	1500	--	--	--	DPPM, VIN OVP, OTP, I Set, 4.2V/4.35V, Adj. BAT Voltage, NTC, Charge timer	TQFN3X3-16

  

Linear Charger									
Part Number	V <sub>in</sub> (V)		CC <sub>MAX</sub> (A)	Pre-Charge (A)	Boost I <sub>SW</sub> (A)	Status LED	TEMP TS	Note	Package
	min.	max.							
G5809	4.5	6	0.5	0.1*CC	--	1	NO	Programmable CC, CV, UVLO, OTP, LDO 3.3V/300mA with EN	TDFN3X3-10
G2277	4.25	6.5	0.5	0.1*CC	--	2	YES	Programmable CC, CV, UVLO, OTP Fast Charge Current Selectable	TDFN2X2-10
G2278	4.25	6.5	0.5	0.1*CC	--	2	NO	Programmable CC, CV, UVLO, OTP	TDFN2X2-8
*G2279	3.5	28	1	0.1*CC	--	2	YES	Programmable CC, CV, UVLO, OTP	TDFN3X3-10
G5803	4.25	6.5	1	0.1*CC	--	1	NO	Programmable CC, CV, UVLO, OTP Vin OVP	SOT-23-5
G5808	--	8	2	0.1*CC	--	2	YES	Programmable CC, CV, UVLO, OTP, Enable, V <sub>in</sub> OVP	TDFN3X3-10/ TQFN4X4-16
G2268	4.35	6.4	1.5	0.1*CC	--	2	YES	DPPM, Programmable CC, CV, UVLO, OTP, Safety timer, Input Current Limit selectable	TQFN3X3-16

  

Photoflash Charger (Flyback)									
Part Number	V <sub>in</sub> (V)		LX (V)	V <sub>OUT</sub>	IGBT Driver	Built-in OVP	Built-in MOSFET	Note	Package
	min.	max.							
G2109	2.9	5.5	45	ADJ	Y	Y	Y	Transformer Kickback, Slow Charge, Separate Source & Sink Pin of IGBT Driver	TDFN2X2-10
G2132/A	2.9	5.5	55	ADJ	Y	Y	Y	Transformer Kickback, Slow Charge, Separate Source & Sink Pin of IGBT Driver	TDFN2X2-10

  

Step Up Converter									
Part Number	V <sub>in</sub> (V)		FB (V)	V <sub>O,MAX</sub> (V)	I <sub>SW</sub> (A)	F <sub>SW</sub> (k Hz)	Topology	Note	Package
	min.	max.							
G5390	0.7	5	1	5	0.4	--	Sync.	Ultra low I <sub>Q</sub> of 1uA, Hysteretic Mode, LBI, GND, LX, VOUT, REF, LBO, EN, VIN	TDFN2X2-8
G5177A	2.5	5.5	1.227	5	5.2	1000	Sync.	LX*2, VBAT, ILM0*1, GND, FB, OC, VO*2	TDFN3X3-10
G2118	2.5	4.5	1.227	5	7	520	Sync.	LX*2, VBAT, ILM01, GND, FB, VOUT*2	SOP-8(FD)/ TSSOP-20(FD)
G2263	2.7	5.5	0.8	5	9	600	Sync.	PGND*2, LX, VOUT*2, NC, EN, VIN, VINA, AGND, FB	AQFN2X2-14
G5134	0.75	5.5	0.5	5.5	0.85	1200	Sync.	SW, GND, EN, FB, VOUT, VBAT	TSOT-23-6
G5171	2.85	5	1.2	6	3.2	1000	Sync.	BAT, VCC, LX, PGND, EN, FB, AGND	SOT-23-6
*G2280	2.7	12	1.2	12.6	11.9	600	Sync.	VCC, EN, FSW, LX, BOOT, VIN, SS, MODE, VOUT, FB, COMP, IILIM, PGND, AGND	TDFN3.5X4.5-20
*G2281	2.7	12	1.2	12.6	10	600	Sync.	EN, FSW, LX, BOOT, VCC, VIN, VOUT, FB, COMP, IILIM, PGND	TDFN2X2.5-11
G2841/A	2.5	6	1.229	22	0.5/ 1.3	600/ 1200	Sync.	L, VIN, SS, GND, FB, EN, FSW, OUT, SW, True Shutdown	DFN3X3-10
G2245	1.8	5.5	0.8	28	0.4	1000	Sync.	VOUT, VIN, DO, FB, CTRL, GND, PGND, LX, 6-Bit DAC Adj. VOUT, True Shutdown	TDFN3X3-8
G5167	8	14	--	19	0.6	440	Async.	DISEqC 1.x, LNB Power, 13V/18V Select, 22kHz tone generator, Line Drop comp.	AQFN2X3-14
G5108	2.5	5.5	1.24	20	1	600/ 1200	Async.	COMP, FB, EN, GND, SW, VCC, FSL, SS	MSOP-8
G5110	2.5	5.5	1.24	22	4	600/ 1200	Async.	COMP, FB, EN, GND*2, LX*2, IN, FREQ, SS	TDFN3X3-10
G5125	2.7	5.5	1.25	30	0.85	1000	Async.	LX, GND, FB, EN, IN	SOT-23-5/ TDFN2X2-6

### Step Up Controller

Part Number	V <sub>in</sub> (V)		F <sub>SW</sub> (k Hz)	FB (V)	T <sub>ON</sub> (ns)	T <sub>OFF</sub> (ns)	Note	Package
	min.	max.						
G5322	4.5	27	35-1000	0.7	400	200	SHDN, SS, OCP, COMP, UVLO	MSOP-10(FD)

### Charge Pump and Current Source

Part Number	V <sub>in</sub> (V)		I <sub>OUT</sub> (mA)	F <sub>OSC</sub> (k Hz)	LED CH	Positive V <sub>O</sub> (V)	Negative V <sub>O</sub> (V)	Note	Package
	min.	max.							
G5910	2.7	5	90	1000	--	3.3/5	--	EN, GND, VOUT, C+, VIN, C-, Boost	TSOT-23-6/ TDFN2X2-6
G5930	1.8	5	60	270	--	--	-V <sub>IN</sub>	IN, EN, GND, C-, C+, OUT, Inverting	SOT-23-6/ TDFN2X2-6
G5931	1.8	5	60	270	--	--	-V <sub>IN</sub>	NC, CP+, GND, CP-, OUT, NC, NC, IN	SOP-8
G2138	2.5	4.8	30	--	--	1.5x/ 2x/3x	-V <sub>IN</sub>	Positive & Negative output control	UDFN1.5X2.4-12
G5031	6	17	60	--	12	--	--	Grayscale Control 16-Bit (65,536-Step) Global Brightness Control 7-Bit	QFN4X4-24

### Lighting Driver

Part Number	V <sub>in</sub> (V)		PFC	Control Mode	DIM (k Hz)	V <sub>ISNS</sub> (V)	Internal MOSFET V <sub>DS</sub> (V)	Note	Package
	min.	max.							
G2605	7	36	--	Hys.	0.1-1	0.1	N	Digital/Analog Dimming Control, OTP, Open LED Protection	MSOP-8
G2620	7	36	--	Hys.	0.1-1	0.1	36	Digital/Analog Dimming Control, OTP, Open/Shorted LED Protection	SOT-23-5/ SOT-89-5
G2630	6	65	--	Hys.	0.3-2.5	0.1	Y	Digital/Analog Dimming Control, OTP, Buck-Type LED Driver, UVP, OCP, OVP	SOP-8(FD)
G2602	6.5	36	--	Current	--	0.12	36	Digital/Analog Dimming Control, OTP, Multi-Topology LED Driver, UVP, OCP, OVP	TDFN3X3-12
G2623	6.5	60	--	Current	--	0.2	Y	Digital/Analog Dimming Control, OTP, Multi-Topology LED Driver, UVP, OCP, OVP	SOP-8(FD)/ TDFN3X3-10
G2624	6.5	60	--	Current	--	0.2	N	Digital/Analog Dimming Control, OTP, Multi-Topology LED Driver, UVP, OCP, OVP	MSOP-10(FD)
G2616	12	18	Y	QR	--	0.25	N	TR With Auxiliary winding, Single-Stage(80VAC - 277VAC)	MSOP-10/ SOP-10/16

### LED Backlight Driver

Part Number	V <sub>in</sub> (V)		LED CH	V <sub>O,MAX</sub> (V)	I <sub>SW</sub> (A)	F <sub>SW</sub> (k Hz)	V <sub>LED</sub> FB (V)	Note	Package
	min.	max.							
AT1316A	2.5	5.5	1	20	1.2	1000	0.2	LX, GND, FB, EN, OVP, VIN, EN Dimming 100-200k Hz	TSOT-23-6
G2619	2.5	20	1	20	1.2	1000	0.2	OVP, FB, DIMC, GND, LX, BP, PWM, EN, PWM Dimming 100-200k Hz	TDFN2X2-8
G5126	2.7	5.5	1	28	0.85	1000	0.2	LX, GND, FB, EN, OVP, IN, EN Dimming 200-2k Hz	TDFN2X2-8/ SOT-23-6
G5139	2.7	7	1	38	0.7	600	0.2* EN <sub>Duty</sub>	FB, COMP, GND, LX, EN, VIN, EN Brightness Control 5k-100k Hz	TDFN2X2-6
AT5160 G2621	2.5	5.5	1	40	1.2	1000	0.2	LX, GND, FB, EN, OVP, VIN, EN Dimming 100-200k Hz	TSOT-23-6/ SOT-23-6
G2546B	2.5	24	4	43	2	600- 2200	0.6	EN, SS, OCP, ADJ OVP, OLP, SLP, OTP, 30mA/CH, PWM Dimming 120-30k Hz	TQFN3X3-16
G5966L G5966	3.2 5	24	6	40	2	1000	1.23	EN, SS, OCP, OVP, OLP, SLP, OTP, 30mA/CH, PWM Dimming 200-20k Hz	TQFN3X3-16
G5968C	4.2	24	8	48	3	1000	0.6	EN, SS, OCP, OVP, OTP, OLP, 30mA/CH, PWM Dimming 200-20k Hz	TQFN4X4-24

**Boost and Inverting Converter for AMOLED**

Part Number	V <sub>in</sub> (V)		F <sub>SW</sub> (k Hz)	Negative V <sub>O</sub> (V)		Positive V <sub>O</sub> (V)		Note	Package
	min.	max.		min.	max.	min.	max.		
G2215	2.8	5.5	1000	V <sub>in</sub> -15	--	--	10	EN, Ture Shutdown in Boost converter	TDFN3X3-12
G2181	2.9	4.5	1500	-6.4	-1.4	4.6	5.5	Triple DC/DC AVDD/VPOS/VNEG, AVDD 4.6V-7.9V/0.1A 0.3V/Step, VPOS 1A 0.1V/Step, VNEG -1A <-4.4V 0.2V/Step, >-4.4V 0.1V/Step, S-wire control	TQFN4X4-32
G2185/A	2.7	4.5	1500	-5.4	-1.4	4.6	5.0	Triple DC/DC AVDD/VPOS/VNEG, AVDD 5.8V-7.9V/0.1A 0.1V/Step, VPOS 0.4A 0.1V/Step, VNEG -0.4A 0.1V/Step, S-wire control	TQFN3X3-16
G2549	2.9	5.5	3000/ 1000	-5.3	-0.6	2.8	5.3	Triple DC/DC AVDD/OVDD/OVSS, AVDD 2.8V-5.0V 0.1V/Step, OVDD 0.1V/Step, OVSS 0.1V/Step, S-wire control	WLCSP4X4-16/ TQFN4X4-20

**Integrated PMIC For LCD**

Part Number	V <sub>in</sub> (V)		F <sub>SW</sub> (k Hz)	I <sub>LX</sub> (A)	V <sub>LX</sub> (V)	OPA S/R (V/us)	OPA ISC (mA)	Note	Package
	min.	max.							
G5517	2.5	5.5	1200	3	18	40	200	Async-Boost, VGH/VGL Charge-Pump, V <sub>COM</sub> , GPM, Voltage Detector	TQFN4X4-24
G5519A	2.5	5.5	1200	2.5	18	12	150	Async-Boost, Switch Controller, GON and GOFF Controller, OPA*5	TQFN5X5-32
G5520A	2.5	5.5	1200	1.8	20	12	150	Async-Boost, VGH/VGL Charge-Pump, V <sub>COM</sub> , G5520A With EN, G5520S With XAO	TQFN3X3-16
G5521/A	2.5	5.5	640/ 1200	2	20	12	150	Async-Boost, VGH Charge-Pump, V <sub>COM</sub> , GPM, Voltage Detector, LDO	TQFN4X4-24
G2517	2.5	6	600/ 1200	2	11	12	250	Sync-Boost for AVDD, GPM, LDO, Reset, DVCOM	TQFN4X4-20
G2521	2.6	5.5	600/ 1200	3	20	20	200	Async-Boost, VGH Regulator, OPA*3, Buck-Boost VGL with Temp. Comp., 7-CH -33V ~ +33V Level-Shifter	TQFN6X6-48
G2523	2.6	5.5	600/ 1200	3	20	20	200	Async-Boost, VGH Regulator, OPA*3, Buck-Boost VGL with Temp. Comp.	TQFN4X4-32
G2518	2.5	5.5	ADJ	1	14	35	150	Sync-Boost(2 mode), Sync-Buck*2, LDO, VGH Boost, VGL Charge-Pump *2, GPM, DVCOM, OP, Reset, I2C	TQFN3.5X6.5-40
G2562	8	14	750	5	22	--	--	Async-Boost(2 mode), Async-Buck, Sync-Buck*2(2 mode), GPM, VGON(2 mode) and VGOFF Regulator, VGH Temp. Comp., I <sup>2</sup> C	QFN6X6-40
G5562/A	8	14	500/ 750	3	20	45	200	Async-Boost, Async-Buck, VGH/VGL Charge-Pump, GPM, V <sub>COM</sub> , Voltage Detector, HV LDO	TQFN7X7-48
G5567S	8	14	750/ 2000	5	16.5	--	--	Async-Boost(2 mode), Async-Buck, Sync-Buck*2(2 mode), GPM, VGON(2 mode) and VGOFF Regulator, VGH Temp. Comp., I2C	QFN6X6-40
G2531	9.5	14	750	4	24	--	200	Async-Boost AVDD, Buck, VLOGIC & VCORE, LDO Dr for VGL2, Charge Pump VGH & VGL1, 8-Bit HA VDD, I2C	TQFN5X5-40/ TQFN6X6-48
G2510S	9.5	14	ADJ	5	24	--	--	Async-Boost(2 mode), Sync-Buck, Async-Buck, VGON and VGOFF Regulator, GPM, VGH Temp. Comp., I2C	TQFN5X5-40



PMIC											
Part Number	V <sub>in</sub> (V)		DCDC		LDO		SW	CHG	Control	Note	Package
	min.	max.	CH	CH	CH	(A)	Interface				
G5699	2.7	5.5	2	--	--	--	--	ENx	CH1-2=1A/1A		TDFN3X3-12
G2234	2.7	5.5	2	3	2	--	--	EN SLP_S3 SLP_S0ix	LDO1=0.75V/1A, LDO2=1.24V/1A, LDOS=1.5V/0.1A, DCDC1/2=4.4A/4.1A, RSMRST, SUSPRDNACK		TQFN4X4-28
G2252	2.5	5.5	2	8	--	--	--	I <sup>2</sup> C	CH1=800mA buck converter, DVS, CH2=800mA buck-boost converter, LDO1-2=200mA, LDO3-8=200mA		TQFN4X4-28
M1694	2.7	5.5	3	--	--	--	--	ENx	CH1-3=1A/1A/1.5A		TDFN3X3-14
G2183/4	4.5	18	3	--	--	--	--	ENx	CH1-3=3A/2A/2A		TQFN6X6-40
G5175	2.95	6	3	1	--	--	--	MODE ENx	CH1-3=2A/1A/1A, LDO=3.3V/0.3A, MODE sets the embedded power sequence, EN1-3, COMP, SS, PGOOD		TQFN4X4-28
G2253	2.8	5.5	4	1	1	--	--	ENx	CH1-4=3.5A/2A/2.5A/2A, FSEL sets Fsw=1.5M/3M Hz, RTCLDO=3.1V/50mA, SW=350mΩ, EN1-4		TQFN4X4-28
G2156	2.95	6	4	--	--	--	--	MODE ENx VSETx	CH1-4=3A/1A/1A/1A, CH1_D <sub>max</sub> =90%, CH1 supports DVS 1.05/1.15/1.25/1.31V, Built power sequence control, EN1-4, SS, PG		TQFN4X4-32
G2178	2.95	6	4	--	--	--	--	ENx VSETx	CH1-4=3.2A/1.2A/1.2A/1.2A, CH1_D <sub>max</sub> =90%, CH1 supports DVS 1.05/1.15/1.25/1.31V, Built power sequence control, EN1-4, SS, PG		TQFN4X4-32
G2257	2.7	5.5	4	1	--	--	--	ENx VFBx	DCDC1/2=3A, DCDC3/4=2A, LDO1=600mA		QFN4X4-24
G2225	2.8	5.5	4	1	1	--	--	ENx SEQ	DCDC1/3=3.5A/2.5A, DCDC2/4=2A, FSEL sets Fsw=1.5M/3M Hz, RTCLDO=3.1V/50mA, SW=350mΩ		TQFN4X4-28
G5851	2.8	5.5	4	8	--	--	--	I <sup>2</sup> C ENx1	DCDC1-4=2A, LDO1-7=300mA, LDO8=50mA, Power Key/Power Hold control, SIM level shifter		WLCSP7X7-49 0.4mm Pitch
G2237	3	5.5	5	1	--	--	--	I <sup>2</sup> C GPIOs	DCDC1/4/5=2A, DCDC2/3=3A, LDO1=600mA		TQFN4X4-32
G2227	3	5.5	6	3	--	--	--	I <sup>2</sup> C GPIOs	DCDC1/3/4/5/6=2A, DCDC2=3A, DCDC2/3/5/6 DVS 0.8V-1.1875V/12.5mV, RTCLDO=50mA, LDO2/3=600mA		TQFN5X5-32
G2206	2.6	5.5	6	3	--	1	--	I <sup>2</sup> C Build in Sequence	RTCLDO, LV LDO*2, Li-ion linear charger with DPPM, BC1,2, Sync-Boost, Sync-Buck*3, Auto Buck-Boost, Sync-Boost and Current Regulator for WLED		TQFN5X5-40
G2206A	2.6	5.5	6	3	--	1	--	I <sup>2</sup> C Build in Sequence	RTCLDO, LV LDO*2, Li-ion linear charger with DPPM, Sync-Boost, Sync-Buck*3, Auto Buck-Boost, Sync-Boost and Current Regulator for WLED		TQFN5X5-40
G2249	3	5.5	7	3	--	--	--	I <sup>2</sup> C PWRKEY PWRON_ MODE	DCDC1/3-7=2A, DCDC2=4A, DCDC2/3/6 with DVS 0.72V-1.06875V/11.25mV, DCDC5 with DVS 0.96V-1.425V/15mV, LDO2/3=600mA, RTCLDO=50mA		TQFN5X5-40
*G2192	2.6	5.5	7	4	--	--	--	I <sup>2</sup> C PWRKEY PWRON_ MODE	DCDC1/3-7=2A, DCDC2=4A, DCDC1 Auto Buck-Boost, DCDC2/3/6 with DVS 0.72V-1.06875V/11.25mV, DCDC5/7 with DVS 0.96V-1.425V/15mV, LDO1/2/3=300mA, RTCLDO=50mA		WLCSP(TBD)
*G5853	2.8	5.5	11	19	--	--	--	I <sup>2</sup> C PWRKEY	CH1-5/9/10= 2A/3A/2A/2A/3A/1A/1A with DVS, CH6-8/11= 3A/2A/1A, LDO1/2/5= 200mA, LDO6= 300mA, LDO3/4/7-18= 500mA, RTCLDO=50mA, RTC, 32KHz Clock Buffer, VCC OVP, PowerKey		WLCSP10X10-84

\*Coming soon

Motor Driver										
Part Number	V <sub>CC</sub> (V)		V <sub>M</sub> (V)		CH	Built-in PI	Exterior Control	Serial Control	Note	Package
	min.	max.	min.	max.						
G2010	2.2	5	1.8	10.5	1	--	Y	--	FS	SOP-8
G2056	1.8	7	0	11	1	--	Y	--	UVLO, OCP, OTP	SOP-8(FD)/ TDFN2X2-8
G2024	2.5	5	4	16	1	--	Y	--	HV FS	TSSOP-14
*G2045	--	--	8	36	1	--	Y	--	H-Bridge(2.8A), OCP/OTP/SCP, nFAULT	TSSOP-16(FD)/ TQFN4X4-16
G2057 G2057A	--	--	8	40	1	--	Y	--	H-Bridge(3.5A), CC, OCP/OTP/SCP, Adjustable PWM current limit	SOP-8(FD)
*G2070	--	--	2.7	5.5	2	--	--	--	Dual H-Bridge (1A), OCP/OTP/SCP, nFAULT	TSSOP-16(FD)/ TQFN3X3-16/ TQFN4X4-16
*G2069	--	--	1.8	10	2	--	Y	--	256 steps Micro-Stepping, 1.3A SCP/OCP/OTP, nFAULT	TQFN3X3-16
G2011	2.2	5	1.8	10.5	2	--	Y	--	FS*2, 2-CH H-Bridge driver	SOP-16
G2053	--	--	2.7	10.8	2	--	--	--	Dual H-Bridge (1A), OCP/OTP/SCP, nFAULT	TSSOP-16(FD)/ TQFN3X3-16/ TQFN4X4-16
G2035	3	5.5	8	35	2	--	Y	--	32 steps Micro-Stepping, 2A SCP/OCP/OTP	TQFN4X4-24/ QFN5X5-32/ TSSOP-24(FD)
*G2061	3	5.5	8	35	2	--	Y	--	64 steps Micro-Stepping, 2A SCP/OCP/OTP	QFN5X5-28
*G2058	--	--	8	52	2	--	Y	SPI	256 steps Micro-Stepping Controller, UVLO/OCP/OTP, nFAULT	TSSOP-38(FD)
*G2068	--	--	5	26	3	--	Y	--	3-phase (3*1/2 Bridge) DRV, 5.5A SCP/OCP/OTP/UVLO, nFAULT	QFN5X5-40
*G2063	--	--	6	60	3	--	Y	--	3-phase (3*1/2 Bridge) Pre-DRV, 600mA HV Buck, OCP/OTP/UVLO, nFAULT	TQFN6X6-40/ TQFN7X7-48
G2030	2.5	6	2.9	6	5+1	2	Y	Y	CH1-3 : CV/FS, CH4 : CC/CV/FS, CH5 : CC/FS, Chopper Control	TQFN4X4-32
G2028	2.5	6	2.9	6	5+1	3	Y	Y	CH1-3 : CV/FS, CH4 : CC/CV/FS, CH5 : CC/FS	TQFN4X4-32
G2022	3	5.5	3	5.5	8+1	2	Y	I <sup>2</sup> C	CH1-3 & CH5-9 : CV/FS, CH4 : CC/CV/FS	TQFN5X5-40

  

VCM Driver										
Part Number	V <sub>CC</sub> (V)		Driver Control	DAC	Driving (mA)	Serial Control	Note	Package		
	min.	max.								
G2034/C	2.3	3.6	Uni-Direction	10-Bit	120	I <sup>2</sup> C	Open loop AF	WL CSP2X3-6		
G2034A/B	2.3	3.6	Uni-Direction	10-Bit	120	I <sup>2</sup> C	Open loop AF	WL CSP2X3-6		
G2048	2.1	3.3	Uni-Direction	10-Bit	120	I <sup>2</sup> C	Open loop selectable AF with ASRC, Tvib Compensation	WL CSP2X3-6		
G2048A	2.1	3.3	Uni-Direction	10-Bit	120	I <sup>2</sup> C	Open loop selectable AF with ASRC, Tvib Compensation	WL CSP2X3-6		
G2047	2.3	3.6	Uni/BI-Direction	10-Bit	±100	I <sup>2</sup> C	Open loop selectable AF with ASRC, Tvib Compensation	WL CSP2X3-6		
G2051	2.6	3.6	Linear H-Bridge Uni/BI-Direction	10-Bit	±100	I <sup>2</sup> C	OIS+AF, 2-CH Hall sensor bias, 2-CH Hall sensor Amp with 9-Bit Hall bias, 6-Bit Gain & 10-Bit Offset Comp.	WL CSP 3X9-27		
*G2052	2.6	3.6	Linear H-Bridge Uni/BI-Direction	10-Bit	±100	I <sup>2</sup> C	OIS+AF, 3-CH Hall sensor bias, 3-CH Hall sensor Amp with 9-Bit Hall bias, 6-Bit Gain & 10-Bit Offset Comp.	WL CSP 3X10-30		

## Reset Series

### Delay Time Embedded

Part Number	V <sub>CC</sub> (V)		Detecting Voltage (V)	Manual Input	Delay (ms)	I <sub>s</sub> supply (μA)	Note	Package
	min.	max.						
G632	1	5.5	2.93	Y	360	10	Push-Pull Output Manual Reset Input	SOT-143
G660/1/2	1.1	5.5	2.25/2.63/ 2.93/4.55	Y	200	10	G660/1/2 has a watchdog Output G660/1 has a MR#	SOT-23-5
G663	1.1	5.5	2.25/2.63/ 2.93/4.55	Y	200	10	Push-Pull Output Dual outputs	SOT-23-5
G670/1	1	5.5	2.63/2.93/ 3.08/3.33/ 4.00/4.38	N	2	16.5	G670H/L Push-Pull High/Low Output G671L Open-Drain Output	SC-70-3/ SOT-89
G678	1	5.5	2.3/2.5	N	0.06	3.3	G678H Open-Drain Output G678L Open-Drain Output	SC-82
G680/1	2.5	5.5	Independent V <sub>XTH</sub> =1.25V	N	140	4	G680H/L Push-Pull High/Low Output G681L Open-Drain Output V <sub>MTH</sub> and V <sub>LTH</sub> can be Independent	SOT-23-5
G686/7	2.7	5.5	Independent V <sub>SEN</sub> =0.994V	Y	200	18	G686H/L Push-Pull High/Low Output G687L Open-Drain Output V <sub>SEN</sub> can be separated from V <sub>CC</sub>	SOT-23-5
G690/1	1	5.5	2.93/ 3.08/4.00/ 4.38/4.63	N	150	10	G690H/L Push-Pull High/Low Output G691L Open-Drain Output	SC-70-3/ SOT-23
G692/3	1	5.5	2.63/2.93/3.08	Y	230	14	G692H/L Push-Pull High/Low Output G693L Open-Drain Output	SC-70-5/ SOT-143

### Delay Time Adjustable

Part Number	V <sub>CC</sub> (V)		Detecting Voltage (V)	I <sub>CD</sub> source (μA)	V <sub>TCD</sub> (V)	I <sub>s</sub> supply (μA)	Note	Package
	min.	max.						
G601	2.2	5.5	V <sub>CC</sub> × 0.5	1.1	0.833	4	Open-Drain Output T <sub>MR</sub> (ms) = 76,000 × C <sub>MR</sub> (μF)	ADFN1.5X1.5-6
G623	0.8	6	2.9/1.8	40	0.5*V <sub>CC</sub>	1	1+3 Power rails Detecting	SOP-8 (FD)
G674/5	0.8	5.5	2.0/2.2/2.4	0.09	0.5	35	G674H/L Push-Pull High/Low Output G675L Open-Drain Output T <sub>CD</sub> (ms) = 6,740 × C <sub>D</sub> (μF)	SOT-23-5/ TDFN2X2-6
G676/7	1	5.5	2.63/2.93/ 3.08/3.33/ 4.00/4.38	0.67	1.25	14	G676L Push-Pull Output G677L Open-Drain Output T <sub>CD</sub> (ms) = 1,860 × C <sub>D</sub> (μF) T <sub>MR</sub> (ms) = 88,000 × C <sub>MR</sub> (μF)	SOT-23-6/ ADFN1.5X1.5-6
G682/3	2.7	5.5	Independent V <sub>SEN</sub> =0.788V	--	0.788	12	G682H/L Push-Pull High/Low Output G683L Open-Drain Output T <sub>CD</sub> (ms) = 2,700 × C <sub>D</sub> (μF) V <sub>SEN</sub> can be separated from V <sub>CC</sub>	SC-70-5/ SOT-23-5/ TSOT-23-5/ DFN1.6X1.6-6
G696/7	0.8	5.5	2.63/2.93/ 3.08/3.33/ 4.00/4.38	0.88	1.25	14	G696H/L Push-Pull High/Low Output G697L Open-Drain Output T <sub>CD</sub> (ms) = 1,685 × C <sub>D</sub> (μF)	SOT-23-5/ TSOT-23-5
*G622	0.7	5.5	0.9-4.8 (0.1V-Step)	40	0.5*V <sub>CC</sub>	1	G622A Open-Drain Output G622B Push-Pull Output T <sub>LH</sub> = C <sub>CT</sub> × R <sub>CT</sub> × LN(V <sub>CC</sub> /V <sub>CC</sub> -V <sub>TCD</sub> ) T <sub>LH</sub> (ms) ≈ 6,500 × C <sub>CT</sub> (μF)	SC-70-4/ SOT-23-5/ SOT-553

## Temperature Sensor & Fan Controller & Fan Driver Series

### Thermal Switch

Part Number	V <sub>CC</sub> (V)		Sensor Position	Sensor CH	HYST (°C)	I <sub>S</sub> SUPPLY (μA)	Accuracy (°C)	Note	Package
	min.	max.							
G708	2.7	5.5	Local	1	10 or 30	33	±3.5	OT is set by an external resistor	SOT-23-5
G709	2.7	5.5	Local	1	10 or 2	33	±3.5	OT is set by an external resistor	SOT-23-5/ TDFN2X2-8/ ADFN1.5X1.5-6
G718	2.7	5.5	Remote	2	Resistor	42	--	NTC is needed	SOT-23-8
G717	2.7	5.5	Remote	8	Resistor	70	--	NTC is needed	TQFN3X3-16

### Digital Interface Temperature Sensor

Part Number	V <sub>CC</sub> (V)		Remote CH	Local CH	Interface	Slave Address	Accuracy (°C)	Note	Package
	min.	max.							
G751	3	5.5	--	1	SMBus	1001xxx	±2	8 slave addresses 9 bits resolution	TDFN3X3-8/ MSOP-8
G753	3	3.6	--	1	SMBus	1001000	±1 ±3	-10°C to 80°C ±1°C (max) -55°C to 125°C ±3°C (max)	T/SOT-23-5/ TDFN2X2-6
M7533	3	3.6	--	1	SMBus	1001000	±2 ±3	-10°C to 100°C ±2°C (max) -55°C to 125°C ±3°C (max)	SOT-23-5
*G754	1.6	3.6	--	1	SMBus	1110xxx	±2	8 slave addresses 8 bits resolution	WLCS2P2X2-4
G781 G781-1	3	5.5	1	1	SMBus	1001100 1001101	±1	Remote up to 160°C	TDFN3X3-8/ MSOP-8(FD)
G788	3	3.6	1	1	SMBus	1001100	±1	THERM or ALERT Limitation is set by pull-up resistor	TDFN3X3-8/ MSOP-8

### Thermal Sensor With Fan Controller

Part Number	V <sub>CC</sub> (V)		Remote CH	Local CH	Fan CH	Slave Address	Accuracy (°C)	Note	Package
	min.	max.							
G7931	4.5	5.5	2	1	3	Selectable	±1	ADD0 for address selection	TSSOP-20
G7932	4.5	5.5	2	1	4	0111001	±1	Build-in clock	TSSOP-20

### Fan Speed Controller & Driver

Part Number	V <sub>CC</sub> (V)		I <sub>OUT</sub> (A)	Crystal (k Hz)	Interface	Slave Address	Speed Control	Note	Package
	min.	max.							
G761	3	5.5	1	32.768	1°C	Selectable	Linear/ PWM	ADD0 for address selection, FG, ALERT#, CLK1%	MSOP-10

## LDO Series

### Single Power LDO

Part Number	V <sub>IN</sub> (V)		I <sub>OUT</sub> (A)	V <sub>OUT</sub> (V)	Dropout (V)	EN	Dis-R (Ω)	I <sub>Q</sub> (μA)	Note	Package
	min.	max.								
*G2259	2.5	5.5	0.15	1.1 ~ 5.0	0.5	Y	--	0.6	MLCC, Ultra Low I <sub>Q</sub>	SOT-23-5/ UDFN1X1-4/ ADFN0.8X0.8-4
G2920	3.5	36	0.2	3.3/5/ADJ	0.5	Y	--	2.5	MLCC, Low I <sub>Q</sub>	SOT-23-5
G2921	3.5	36	0.2	3.3/5	0.5	Y	--	3.5	MLCC, Low IQ	SOT-23-3/ TDFN2X2-6
G9103	2.4	6	0.2	1.21 ~ 5.0	0.13	Y	100	25	PSRR 75 dB	UDFN1X1-4
G2260	2.1	5.5	0.25	1.5~5.0	0.15	N/Y	125	1	MLCC, Ultra Low I <sub>Q</sub>	SOT-23-3/5/ UDFN1X1-4
G9090	2.5	6	0.3	1.5/1.8/2.5/2.8/ 3.0/3.1/3.3/4.75	0.21	Y	230	80	MLCC	SC-70-5/SOT-23-5/ TSOT-23-5/ TDFN2X2-6
G9091	2.5	6	0.3	1.2/1.5/1.8/ 2.5/2.8/3.3	0.21	Y	200	80	MLCC	SC-70-5/SOT-23-5/ TSOT-23-5/ TDFN1.6X1.6-6/ TDFN2X2-6
G913C	2.5	5.5	0.3	3.3	0.4	Y	Y	90	MLCC	SOT-23-5
G916	2.5	6	0.3	1.2/1.8/2.5/3.3/ ADJ(1.25)	0.24	Y	Y	90	MLCC	SOT-23-5
G917	2.5	6	0.3	ADJ(1.2)	0.24	Y	Y	100	MLCC	SOT-23-5
G918	2.5	6	0.3	ADJ(0.8)	0.24	Y	Y	100	MLCC	T/SOT-23-5
G9131	3	6	0.3	3.3	0.4	N	--	90	MLCC	SOT-23-3
G9001	2.5	7	0.5	1.2/1.8/2.5/ 3.15/3.3/5.0	0.3	Y	200	80	MLCC	T/SOT-23-5/ SOT-89
G983	2.5	6	0.6	1.7/1.8/2.5/3.3	0.2	Y	--	300	MLCC	SOP-8
G9141	2.5	5.5	0.6	ADJ(1.0)	0.8	Y	Y	90	MLCC	SOT-23-5/SOP-8
G903	4	6.5	0.6	3.3	0.65	N	--	300		SOT-223-3
G933	4	6.5	0.6	3.3	0.65	N	--	300		SOT-89-3
G910	4	6.5	0.6	3.3	0.65	N	--	300		SOT-89-3

## Single Power LDO

Part Number	V <sub>in</sub> (V)		I <sub>OUT</sub> (A)	V <sub>OUT</sub> (V)	Dropout (V)	EN	Dis-R (Ω)	I <sub>Q</sub> (μA)	Note	Package
	min.	max.								
G912	2.7	6.5	1	1.2	1.55	N	--	480		SOT-223-3
G952	2.5	6.5	1	1.8	1.16	N	--	480		SOT-223-3
G1117-XX	3	6	1	1.8/2.5/3.3	1.3	N	--	600		SOT-223-3
G950	3.3	6	1	2.5	1.15	N	--	600		SOT-223-3
G960	4	7	1	3.3	0.8	N	--	600		SOT-223-3/TO-252-3
G9916	2.4	5.5	1.5	1.2/1.8/2.5/3.3	0.4	N	N	1200		SOT-223-3
G9815	2.5	6	1.5	1.2/3.3	0.6	N	N	45	MLCC	TO-252-3
AT9915	2.2	7	1.5	1.2/1.8/2.5/3.3	0.4	N	--	3000		SOT-223/TO-252
G9915	2.2	7	1.5	1.2/1.8/2.5/3.3	0.4	N	--	3000	MLCC	TO-252-3
G965	2.2	6	1.8	2.5/ADJ(1.2)	0.5	Y	--	1700	Dual mode	SOP-8
G962	2.2	7	2	1.8/ADJ(1.2)	0.45	Y	--	3000	MLCC	TO-252-5
G9822	2.5	6	2	ADJ(0.6)	0.4	Y	330	100		SOP-8(FD)
*G9106	1.1	6.5	3	0.8-5	180	Y	Y	4300	Preset VOUT Scale 0.05/0.1/0.2/0.4/0.8/1.6	TQFN3.5X3.5-20

## Dual Power LDO

Part Number	V <sub>in</sub> (V)		I <sub>OUT</sub> (A)	V <sub>OUT</sub> (V)	Dropout (V)	EN	Dis-R (Ω)	I <sub>Q</sub> (μA)	Note	Package
	min.	max.								
*G9107	2.8	6	0.3	ADJ	0.1	Y	100	30	Uninterruptible VOUT from IN1 or IN2	SOT23-6/8/ TDFN2X2-6/8
G940	1	5.5	0.8	ADJ(0.5)	0.2	Y	Y	20	MLCC	TDFN3X2-8
G942	1	5.5	1	ADJ(0.5)	0.3	Y	35	20	MLCC	SOP-8(FD)
G943	1	5.5	1	0.9/1.05/1.2/1.5/1.8/ 2.5/3.3/ADJ(0.8)	0.3	Y	35	60	VOUT set by SET1 & SET2	SOP-8(FD)
G964	1.4	5.5	1	ADJ(0.8)	0.15	Y	90	1000	MLCC, POK	SOP-8
G9661 G9661M	1.1	5.5	3	ADJ(0.8)	0.3	Y	90	900	MLCC, POK, SS	SOP-8(FD)/ TDFN3X3-10
G966A	1.1	5.5	3	ADJ(0.8)	0.45	Y	90	1000	MLCC, POK, SS	SOP-8(FD)
G9662	1.8	5.5	3	1.5	0.38	Y	90	900	MLCC, POK, SS	TDFN3X3-10
G946/A	1	5.5	3	ADJ(0.8)	0.23	Y	85	60	MLCC, POK	SOP-8(FD)
G9453	1	5.5	3	0.9/1.05/1.2/1.5/1.8/ 2.5/3.3/ADJ(0.8)	0.24	Y	85	60	VOUT set by SET1 & SET2	SOP-8(FD)
G9336B	4.5	5.5	--	ADJ(0.5)	--	Y	--	250	LDO driver	TSOT-23-6

## Linear Fan Driver

Part Number	V <sub>CC</sub> (V)		I <sub>OUT</sub> (A)	V <sub>OUT</sub> (V)	V <sub>OUT</sub> SET	Dropout (V)	EN	Note	Package
	min.	max.							
G994	10	20	0.5	4XV <sub>SET</sub>	V <sub>SET</sub>	0.5	YES	OCF, OTP	SOP-8(FD)
G9941	8	15	0.5	4XV <sub>SET</sub>	V <sub>SET</sub>	0.5	YES	OCF, OTP	SOP-8(FD)
G9941A	8	15	0.5	2.5XV <sub>SET</sub>	V <sub>SET</sub>	0.5	YES	OTP	SOP-8(FD)
G5363	12	28	0.4	7.3XV <sub>ADM</sub>	V <sub>ADM</sub>	0.12	YES	OCF, OTP, SS	SOP-8(FD)

## DDR Terminator

Part Number	V <sub>DDQ</sub> (V)		I <sub>SOURCE</sub> (A)	I <sub>LINK</sub> (A)	I <sub>REF</sub> (mA)	V <sub>CNTL</sub> (V)	EN	Note	Package
	min.	max.							
G2985	1.1	3.5	2.4	2.4	10	2.5-5.5	S3/S5	DDR1/2/3/3L/4	TDFN3X3-10
G2986	1.1	3.6	4	4	10	3-5.5	S3/S5	DDR1/2/3/4/3L, LPDDR2/3	TDFN2X2-10
G2992	1.2	3.6	3	3	--	3.3-5.5	NO	DDR1/2/3/3L	SOP-8(FD)
G2992B	1.2	3.6	2	2	--	3-5.5	NO	DDR1/2/3	SOP-8
G2995/6	1.6	5.5	1.5	1.5	0.03	1.8-5.5	NO	DDR1/2	SOP-8(FD)
G2997/B	1.2	3.6	4/3	4/3	10	3-5.5	S3/S5	DDR1/2/3/3L	MSOP-8(FD)/ MSOP-10(FD)/ TDFN3X3-10
G2998	1.2	3.6	4/3	4/3	10	3-5.5	YES	DDR1/2/3/3L	SOP-8(FD)



- Headquarters Tel:+886-3-5788833
- Taipei Office Tel:+886-2-82273608
- Korea Office Tel:+82-31-2736101
- Shenzhen Office Tel:+86-755-83474500
- Shanghai Office Tel:+86-21-62710258
- Website <http://www.gmt.com.tw>
- Contact E-mail: [contact@gmt.com.tw](mailto:contact@gmt.com.tw)