

2008
SHORT FORM

The Power Electronic
Solutions Company

Integrated Circuits
Power MOSFET
IGBT



Advanced Power Electronics Corp. USA

www.a-powerusa.com

2008 CATALOG

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The Power Electronic Solutions Company

Established in Taiwan in 1998 to provide power solutions for new and existing power applications, Advanced Power Electronics Corporation (APEC) has since emerged as the leading MOS supplier for Power Conversion applications in Asia, and was recently ranked #16 in the world by iSuppli (in 2005).

With strong support from its manufacturing and technology partners, APEC has successfully introduced and expanded its range of Power MOSFET and Power Management products to address the changing needs of the Power Conversion market. This will continue in the coming years as APEC continues to implement an exciting roadmap of new product introductions.

Working with several foundry partners, multiple packaging sites for each package type, and strong logistics partners, APEC has a well-established flexible supply chain to provide responsive support to meet our customers' short and long-term production demands.

APEC continues its commitment to be the standard for excellence in the Power Semiconductor market, with a strong commitment to consistently supply quality products through recognized industry certification programs such as ISO9001. Every APEC product has been rigorously qualified to ensure reliable service, through extensive industry-standard environmental and reliability testing such as HTGB, HTRB, H3TRB, PCT, TCT, PRCL, etc.

As a good corporate citizen, APEC has worked with its manufacturing partners to eliminate many hazardous substances from its production process and its products. APEC complies with all current WEEE and RoHS environmental regulations to ensure that our products do not contain any restricted substances, and meet legislated environmental requirements.

Having established sales channels in Asia to support its customers there, APEC is now expanding into new geographic markets in North/South America, and Europe, engaging with sales representatives and distribution partners to support both local and global customers alike.

Certificate of Registration

ISO 9001:2000





PWM CONTROLLERS

Single channel

Part Number	Control/Output Range	Linear Controller Reference	Max. Supply Voltage	Frequency	LDO / Internal	Sync / Async		Output Drive	With VP	Power Good	Soft Start	Short Circuit Protection	Thermal Shutdown	Current Limit	Package	Thermal Impedance Rth(J/A)	Demo Board	
																	TO252/SOP8	Dual-N
APU3037	1.25V- 0.9Vin		25V	200kHz		Sync		0.5A			•	•			8-pin SOIC/TSSOP	160°C/W	OK	OK
APU3037A	0.8V- 0.9Vin		25V	400kHz		Sync		0.5A			•	•			8-pin SOIC/TSSOP			
APU3137	0.8V- 0.9Vin		25V	200kHz		Sync		1A			•	•			8-pin SOIC/TSSOP			
APU3038	1.25V- 0.9Vin		25V	200~400kHz		Sync		0.5A	•		•	•			14-pin SOIC/TSSOP	88°C/W	N/A	N/A
APU3138	0.8V- 0.9Vin		25V	200~400kHz		Sync		1A	•		•	•			14-pin SOIC/TSSOP			
APU3039	0.8V- 0.9Vin		25V	200~400kHz	X1 / 60mA	Sync		0.5A	•		•			•	20-pin MLPQ	37°C/W	N/A	OK

Note: APU3037, APU3037A, APU3137 are pin-compatible
APU3038, APU3138 are pin-compatible

Single channel + LDO

Part no.	Control/Output Range	Linear Controller Reference	Max. Supply Voltage	Frequency	LDO / External	Sync / Async		Output Drive	With VP	Power Good	Soft Start	Short Circuit Protection	Thermal Shutdown	Current Limit	Package	Rth(J/A)	Demo Board	
																	TO252/SOP8	Dual-N
APU3073	0.8V- 0.9Vin	0.8V	25V	50~400kHz	X1	Sync		0.5A	•		•	•	•	•	16-pin QSOP	112°C/W	N/A	N/A

Dual channel

Part no.	Control/Output Range	Linear Controller Reference	Max. Supply Voltage	Frequency	LDO / Internal	2-Independent / 2-Phase		Output Drive	With VP	Power Good	Soft Start	Short Circuit Protection	Thermal Shutdown	Current Limit	Package	Rth(J/A)	Demo Board	
						2-Independent	2-Phase										TO252/SOP8	Dual-N
APU3146	0.805V- 0.9Vin		25V	200~500kHz	X1 / 50mA	Yes	Yes	1A	•	•	•	•	•	•	28-pin TSSOP	80°C/W	OK	N/A

Dual channel + LDO

Part no.	Control/Output Range	Linear Controller Reference	Max. Supply Voltage	Frequency	LDO / External	2-Independent / 2-Phase		Output Drive	With VP	Power Good	Soft Start	Short Circuit Protection	Thermal Shutdown	Current Limit	Package	Rth(J/A)	Demo Board	
						2-Independent	2-Phase										TO252/SOP8	Dual-N
APU3046	1.25V- 0.9Vin	1.25V	25V	200~400kHz	X1	Yes	Yes	0.5A	•	•	•	•			24-pin TSSOP	84°C/W	N/A	N/A
APU3047	1.25V- 0.9Vin	1.25V	25V	200kHz	X1	Yes	Yes	0.5A	•	•	•	•			20-pin SOIC	75°C/W	N/A	N/A
APU3048	1.25V- 0.9Vin	1.25V	25V	200kHz	X1	Yes	No	0.5A	•		•	•			16-pin TSSOP	85°C/W	OK	OK

Buck and Boost Converters

Part Number	Package Type	Features	Input Range	Output Current	Output Voltage	Frequency	Standby Current	Efficiency (%) 12V to 5V at 2A	Efficiency (%) 12V to 3.3V at 2A	Note
Buck (Step-down) Converters										
APE1701M	SOP8	a, b, c, e, f	24V(max)	2A	12, 5, 3.3, Adj(1.23)	150kHz	70uA	84	80	
APE1702S	TO263-5	a, b, c, e, f	24V(max)	3A	12, 5, 3.3, Adj(1.23)	150kHz	70uA	84	80	
APE1703H	TO252-5	a, b, c, e, f	24V(max)	3A	12, 5, 3.3, Adj(1.23)	150kHz	70uA	84	80	
APE1705S	TO263-5	a, b, c, e, f	45V(max)	3A	12, 5, 3.3, Adj(1.23)	150kHz	100uA	84	80	
APE1706H	TO252-5	a, b, c, e, f	45V(max)	3A	12, 5, 3.3, Adj(1.23)	150kHz	10uA	84	80	
APE1707M	SOP8	a, b, c, e, f	45V(max)	2A	12, 5, 3.3, Adj(1.23)	150kHz	10uA	84	80	
APE1801M	SOP8	a, b, c, d, f	20V(max)	2A	Adj(0.8)	330kHz	10uA	92	88	
APE1802M	SOP8	a, b, c, d, f	23V(max)	3A	Adj(0.8)	330kHz	10uA	92	88	
APE1803AM	SOP8	a, b, c, d, e, f, k	23V(max)	3A	Adj(0.8)	330/500kHz	10uA	92	88	MLCC
APE1804M	SOP8	a, b, c, d, f	23V(max)	2A	Adj(0.8)	330kHz	10uA	92	88	
APE1805M	SOP8	a, b, c, e, f, k	23V(max)	2A	Adj(0.8)	330/500kHz	10uA	92	88	MLCC
APE1806M	SOP8	a, b, c, e, f, k	20V(max)	2A	Adj(0.8)	330/500kHz	10uA	92	88	MLCC
APE1501Y5	SOT23-5	b, c, e, f, g, k, l	6V(max)	600mA	Adj(0.6)	1.2MHz	1uA			
Part Number	Package Type	Features	Input Range	Output Current	Output Voltage	Frequency	Standby Current	Efficiency (%) 5V to 12V at 1A	Efficiency (%) 3.3V to 5V at 1A	Note
Boost (Step-up) Converters										
APE1901M/AM	SOP8	b, c, e, f	12V(max)	3A	28V	300/600kHz	10uA	92	91	
APE1902M/AM	SOP8	b, c, e, f	24V(max)	3A	38V	300/600kHz	10uA	92	91	

a: Soft-start b: Internal switch c: Enable pin d: Current limit setting e: Internal current limit f: Thermal shutdown g: Power-saving mode
h: Voltage reference i: UVLO j: Boost pin k: External compensation l: Synchronous

Reset IC

Part Number	Reset Threshold Voltage	Active-Low Reset Output	Active-High Reset Output	Min Reset Timeout Range (ms)	Max Icc (mA)	Package Type	Operating Temp. Range (°C)
APE6809	2.2 ~ 4.71	Push-Pull		140 ~ 260	20	SOT23	-20 ~ +85
APE6810	2.2 ~ 4.71		Push-Pull	140 ~ 260	20	SOT23	-20 ~ +85
APE6811	2.2 ~ 4.71	Push-Pull		140 ~ 260	20	SOT23	-20 ~ +85
APE6812	2.2 ~ 4.71		Push-Pull	140 ~ 260	20	SOT23	-20 ~ +85

POWER MOSFET SELECTION GUIDES

TO-220 (P), TO-263 (S) (D²PAK) equivalent to SOT78, SOT404

Part Number	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max. (mΩ)			Gate Charge(nC)			Switch Time		C _{iss} (pF)	I _b (A)	P _D (W)
			V _{GS} =10V	V _{GS} =4.5V	V _{GS} =2.5V	Q _g	Q _{gs}	Q _{gd}	T _r	T _f			

N-channel

AP3711GP/S	20V	20V	6	7.3			18/29	4.6	8	65	4.6	2100/3360	80	79
AP3715GP/S	20V	20V	11	15.5			6.6/10	2.8	2.6	65	4.6	800/1280	49	40
AP92T03GP/S	25V	20V	4	5.2			45/72	6	26	63	7	3500/5600	80	89
AP40N03P/S	30V	20V	17	23			17	3	10	60	10	800	40	50
AP40T03GP/S	30V	25V	25	45			8.8	2.5	5.8	62	4.4	655	28	31.3
AP60T03GP	30V	20V	12	25			11.6	3.9	7	57.5	6.4	1135	45	44
AP70T03GP/S	30V	20V	9	18			16.5	5	10.3	105	8.5	1485	60	53
AP85T03GP/S	30V	20V	6	10			33	7.5	24	77	67	2700	75	107
AP90T03P/S	30V	20V	4	6			60	8.5	38	83	420	4090	75	96
AP9468GP/S	40V	20V	7	9			36/58	4	20	62	16	2235/3580	80	89
AP9973GP/S	60V	20V	80	100			8	3	4	15	3	720	14	27
AP9971GP/S	60V	20V	36	50			18	6	11	24	7	1700	25	39
AP9972GP/S	60V	25V	18	22			32	8	20	58	80	3170	60	89
AP9974GP/S	60V	20V	12	15			43	8	31	48	67	3180	72	104
AP95T06GP/S	60V	25V	8.5	12			72	16	53	76	109	5700	75	138
AP75N07GP/S	75V	20V	11				83	10	51	73	200	4270	80	156
AP95T07GP/S	75V	20V	5				83/133	28	33	151	165	4400/7040	80	300
AP85T08GP/S	80V	20V	13	18			63	23	38	100	173	6300	75	138
AP95T08GP	80V	20V	7				93/150	26	42	96	65	4450/7120	80	300
AP75T10P/S	100V	20V	15	21			63/101	9	30	74	104	2800/4480	72	138
AP85T10GP	100V	20V	11				90/145	24	40	76	53	4450/7120	80	300
AP25N10GP/S	100V	20V	80				19	5	6	28	2	1060	23	96
AP630P	200V	20V	400				25	43	7	23	20	800	9	74
AP18N20GP/S	200V	20V	170				19	5	6	21	19	1065	18	89
AP730P	400V	20V	1000				38	5.7	22	15	14	700	5.5	74
IRF830P	500V	20V	1500				38	5	22	16	42	610	4.5	74
IRF840P	500V	20V	850				45/72	7	25	31	33	1250/2000	8	125
AP05N50P	500V	20V	1400				19/30	4.6	6.3	8	10	985/1580	5	73.5
AP4002P/S	500V	30V	5000				12/19	2	5.5	12	19	375/600	2	20
AP01N60P	600V	30V	8000				7.7	1.5	2.6	5	7	286	1.6	39
AP02N60P	600V	30V	8000				14/20	2	8.5	12	9	155/240	2	39
AP10N70P/S	600V	30V	600				35.9/57	8.3	11.5	19.7	23.3	1950/3120	10	174
AP03N70P-A	650V	30V	3600				12/20	3	5	5	6	600/960	3.3	54
AP04N70BP-A	650V	30V	2400				16.7	4.1	4.9	8.3	8.2	950/---	4	62.5
AP2761P-A	650V	30V	1000				53/85	10	15	20	36	2770/4430	10	104
AP10N70P-A	650V	30V	600				35.9/57	8.3	11.5	19.7	23.3	1950/3120	10	174
AP07N70CP-A	675V	30V	1200				32	8.6	9	15	18	2075	7	89
AP09N70P-A	675V	30V	750				44	11	12	21	24	2660	9	156
AP03N70P-H	700V	30V	4400				12/20	3	4	6	8	590/950	3.3	54
AP09N70P-H	700V	30V	800				44	11	12	21	24	2660	9	156
AP02N90P	900V	30V	7200				12/20	4	2	5	9	630/1000	1.9	62.5

P-channel

AP9435GP/S	-30V	20V	50	90			10/16	3	5	18	14	463/740	-20	31
AP4407GP/S	-30V	25V	14	23			35/60	5	26	64	100	2120/3390	-50	54
AP6679GP/S	-30V	25V	9	15			42/67	6	25	35	78	2870/4590	-75	89
AP9578GP/S	-60V	25V	160	200			10/16	2	4	13	29	760/1220	-10	28
AP9575GP/S	-60V	25V	70	90			21/34	5	11	18	42	1760/2800	-16	36
AP15P10GP/S	-100V	20V	230				37/60	5	15	25	36	1180/1900	-15	96
AP13P15GP/S	-150V	20V	300				38/60	5	15	21	36	1210/1940	-13	96
AP9120GP/S	-200V	20V	680				20/32	5	13	14	28	1210	-8	96

TO-220FM (F), TO-220CFM (I)

Part Number	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max. (mΩ)			Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} =10V	V _{GS} =4.5V	V _{GS} =2.5V	Qg	Qgs	Qgd	Tr	Tf			

N-channel

AP9972GI	60V	25V	18	22			32/51	8	20	58	80	3170/5070	35	31
AP18N20GI	200V	20V	170				19/30	5	6	21	19	1065/1700	18	34.7
AP4085I	500V	30V	430				48/77	9	32	134	121	1205/1930	16	39
AP16N50I	500V	20V	400				33/53	11	9	50	40	1950/3120	16	52
AP4002I	500V	30V	5000				12/19	2	5.5	12	19	375/600	2	20
AP2761I-A	650V	30V	1000				53	10	15	20	36	2770	10	37
AP03N70F-A	650V	30V	3600				12	3	5	5	6	600/960	3.3	29
AP04N70BF/I-A	650V	30V	2400				16.7	4.1	4.9	8.3	8.2	950	4	33
AP07N70CF-A	650V	30V	1200				32	8.6	9	15	18	2075	7	37
AP04N70BF-H	650V	30V	2400				16.7	4.7	4.9	8.3	8.2	950	4	33
AP04N70BI	700V	30V	2400				16.7	4.1	4.9	8.3	8.2	950	4	33
AP09N70F/I-A	675V	30V	750				44	11	12	21	24	2660	9	42
AP03N70F/I-H	700V	30V	4400				12/20	3	4	6	8	590/950	2.5	29
AP2763I-A	750V	30V	1450				47/75	8.5	20	13	21	1880/3010	8	50

P-channel

AP4407F/I	-30V	25V	14	23			35/60	5	26	64	100	2120/3390	-40	34
AP40P03GI	-30V	20V	28	50			15/24	3	10	48	66	910/1460	-30	31
AP9575GI	-60V	20V	70	90			21/34	5	11	18	42	1760/2800	16	31.25
AP18P10GI	-100V	32V	160	200			16/25.6	4.4	8.7	14	40	1590/2550	-12	31

TO-262(I²-PAK)

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max. (mΩ)			Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} =10V	V _{GS} =4.5V	V _{GS} =2.5V	Qg	Qgs	Qgd	Tr	Tf			

N-channel

AP90T03GR	30V	20V	4	6			60/96	8.5	38	83	420	4090/6540	75	96
AP9972GR	60V	25V	18	22			32/51	8	20	58	80	3170/5070	60	89
AP2761R-A	650V	30V	1000				53/85	10	15	20	36	2770/4430	10	104
AP10N70R-A	650V	30V	600				35.9/57	8.3	11.5	19.7	23.3	1950/3120	10	174
AP09N70R-A	675V	30V	750				44	11	12	21	24	2660	9	156

TO-3P/3PF

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max. (mΩ)			Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} =10V	V _{GS} =4.5V	V _{GS} =2.5V	Qg	Qgs	Qgd	Tr	Tf			

N-channel

AP75N07GW	75V	20V	11				83/130	10	51	73	200	4270/6830	90	250
AP30N30W	250V	30V	68				63/100	19	14	36	45	4290/6900	36	208
AP30N30WI	250V	30V	68				63/100	19	14	36	45	4290/6900	30	83
AP95N25W	250V	30V	55				168/270	36	68	92	105	8370	50	150
AP88N30W	300V	30V	48				170/250	40	73	142	145	8440/13500	88	150
AP10N70W	600V	30V	600				36/57	8.3	11.5	20	23	1950/3120	10	174
AP09N90W	900V	30V	1200				67.1/120	17	19.9	10.3	536	4087/6000	8.6	240
AP09N90CW	900V	30V	1400				50.7/80	12	16	16	27	3097/5000	7.6	208

PDIP-8

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max. (mΩ)			Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} =10V	V _{GS} =4.5V	V _{GS} =2.5V	Qg	Qgs	Qgd	Tr	Tf			

Complementary N/P channel

AP4501GSD	30V	20V	27	50			9/13	2	5	5	4	645/800	7	2
	-30V	20V	49	75			9/15	2	5	7	16	460/730	-5	2
AP4501GD	30V	20V	28	42			9/15	2	5	5	5	645/1030	7	2
	-30V	20V	50	90			9/15	2	5	7	16	460/730	-5.1	2

PDIP-8

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max(mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
AP4519GED	35V	20V	32	48			10/16	3	5	6	3	990/1580	6.2	2
	-35V	20V	64	90			9/15	2	4	5	100	270/430	-5	2
AP4513GD	35V	20V	36	60			6/10	2	3	7	3	470/750	5.8	2
	-35V	20V	68	100			6/10	1	4	7	4	410/660	-4.3	2
AP4511GD	35V	20V	18/25	29/37			11/18	3	6	7	6	830/1330	7	2
	-35V	20V	32/40	50/60			10/16	2	6	6	7	690/1100	-6.1	2
AP4511GED	40V	16V	28	36			8.2/13	1.5	3.6	20	4	590/940	6	2
	-40V	16V	42	55			14.8/24	2.7	6.8	17.2	48.7	1130/1800	-5	2
AP4569GD	40V	20V	52	75			6/10	2	3	5	3	490/780	4.8	2
	-40V	20V	90	130			7/12	1.6	4	5	5	490/780	-3.8	2
AP4523GD	40V	10V	40	50			7/11	2	3	5	4	580/930	5.6	2
	-40V	20V	52	80			11/18	3	6	5	7	960/1540	-5.1	2
AP4578GD	60V	20V	50/64	63/80			9/17	3	4	5	7	730/1170	4.5	2
	-60V	20V	92/125	115/150			12/20	2	6	6	6	905/1450	-3	2

Dual N-channel

AP9960GD	40V	20V	25	40			14.7	7.1	6.8	6.3	12.6	1725/---	7	2
AP9971GD	60V	25V	50	60			32.5	4.9	8.8	10	5.5	1560/---	5	2
AP9973GD	60V	20V	80	100			8/13	2	4	4	6	700/1120	3.9	2

TO-252-4L (D-PAK-5)

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			

N+P-channel

AP4513GH	35V	20V	42	60			6/10	2	3	7	4	460/740	10	8
	-35V	20V	75	105			6/10	1.2	3	7	3	400/640	-8	8
AP4513GH-A	35V	20V	32	54			6/10	2	3	7	4	460/740	11	8
	-35V	20V	68	105			6/10	1.2	3	7	3	400/640	-8.3	8
AP4511GH	35V	20V	30	40			11/18	3	6	7	6	830/1330	15	10
	-35V	20V	48	70			10/19	2	6	6	7	690/1100	-12	10
AP4511GH-A	35V	20V	27	36			11/18	3	6	7	6	830/1330	8.6	10
	-35V	20V	45	70			10/19	2	6	6	7	690/1100	-6.7	10
AP4569GH	40V	20V	42	62			6/10	1.2	3.2	8.8	3.6	330/530	10.5	8
	-40V	20V	75	100			7.3/12	1.3	3.6	7.6	6.8	460/740	-8	8
AP4521GEH	40V	16V	36	42			7.4/12	1.6	3.5	19.3	3	590/940	11.7	9
	-40V	20V	72	92			7.3/12	1.3	3.6	17	5	450/720	-8.7	9
AP4523GH	40V	10V	45	60			8/13	2	4	18	3	600/900	13	7.8
	-40V	20V	60	75			12/19	2	6	14	15	820/1310	-11	7.8
AP4525GEH	40V	16V	28	32			9/14	1.5	4	20	4	580/930	15	10
	-40V	16V	42	60			9/24	2	5	15	25	770/1230	-12	10
AP4525GEH-A	40V	16V	26	32			9/14	1.5	4	20	4	580/930	8.3	10
	-40V	16V	40	60			9/24	2	5	15	25	770/1230	7	10
AP4563GH	40V	20V	30	40			10/16	4	5	5	7	1100/1760	30	39
	-40V	20V	36	48			18/30	4	11	6	36	1570/2500	-27	42
AP4578GH	60V	25V	72	90			9/15	2	5	5	5	750/1200	9	9
	-60V	25V	125	150			13/21	3	6	5	7	1030/1650	-6	9

TO-252(D-PAK)/TO-251(I-PAK) N-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max(mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
AP9T19GH/H	20V	12V		16	24		18/28	2	9	85	90	905/1450	33	25
AP9T15GH/J	20V	16V		50	80		5/8	1	2	55	3	360/580	12.5	12.5
AP9T16GH/J	20V	16V		25	40		10/16	3	5	98	6	870/1390	25	25
AP9T18GH/J	20V	16V		14	28		16/25	3	9	80	12	1115/1790	38	31

TO-252(D-PAK)/TO-251(I-PAK) N-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)			Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)	
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	Qg	Qgs	Qgd	Tr	Tf				
AP9T18GEH/J	20V	12V		14	28		16/26	2	6	84	14	1080/1730	40	31
AP3711GH/J	20V	20V	6	7.3			18/29	4.6	8	65	4.6	2100/3360	75	79
AP3715GH/J	20V	20V	11	15.5			6.6/10	2.8	2.6	65	4.6	800/1280	49	40
AP70L02GH/J	25V	20V	9	18			23	3	17	95	14	790	66	66
AP72T02GH/J	25V	20V	8/9	11/15			13/21	2.7	9	80	6	930/1490	62	60
AP75L02GH/J	25V	20V	8	14			28/45	4.2	22	110	30	1100/1760	69	60
AP85L02GH/J	25V	20V	6	10			49	5	36.5	85	110	1510	85	96
AP85T03GH/J	25V	20V	6	10			33/52	7.5	24	77	68	2700/4200	75	107
AP86T02GH	25V	20V	6	10			23/37	5	14	105	8	1830/2930	75	75
AP92T03GH	25V	20V	4	5.2			45/72	6	26	63	7	3500/5600	75	89
AP15N03GH/J	30V	20V	80	100			4.6	1.1	3	22.5	3.3	160	15	28
AP15T03GH/J	30V	20V	80	100			4	1.4	2.4	22	2.4	280/450	12	12.5
AP20N03GH/J	30V	20V	52	85			6.1	1.4	4	29	3.6	290	20	31
AP20T03GH/J	30V	20V	50	80			4	1.5	2.3	30	3	270/430	12.5	12.5
AP25T03GH/J	30V	20V	35	55			6/10	2	4	200	3	440/705	20	21
AP40N03GH/J	30V	20V	21	30			17	3	10	60	10	800	36	30
AP40T03GH/J	30V	20V	25	45			8.8	2.5	5.8	62	4.4	655	28	28
AP50T03GH/J	30V	20V	16	30			10/16	3.5	6	75	4	815/1304	37	35
AP60N03GH/J	30V	20V	13.5	20			22.4	2.7	14	81	18	950	55	62.5
AP60T03GH/J	30V	20V	12	25			12/20	4	7	58	6	1135/1820	45	44
AP62T03GH	30V	20V	12	18			11.5/18	2	6.8	56	7	750/1200	54	47
AP9408GH	30V	20V	10	12			13/21	2.2	7	6	9	860/1380	57	53.6
AP70N03GH/J	30V	20V	9	14			30	7	15		85	45	70	69
AP70T03GH/J	30V	20V	9	18			17/27	5	10	105	9	1485/2400	60	53
AP80N03GH/J	30V	20V	8	12			42	5.2	26	100	60	1950	80	83
AP85T03GH/J	30V	20V	6	10			33/52	8	24	77	67	2700/4200	75	107
AP9412GH	30V	20V	6	8			26/42	4.6	16	7	20	2020/3230	73	53.6
AP88T03GH/J	30V	20V	5	9			35/60	7	25	95	96	2670/4300	75	89
AP90T03GH/J	30V	20V	4	6			60/96	8.5	38	83	120	4090/6540	75	96
AP4416GH	35V	20V	45	65			6/10	2	3.5	36	2	460/740	20	26
AP4418GH	35V	20V	20	40			10/16	3	6	56	3	840/1340	33	35
AP3402GEH	35V	20V	18	32			10.5/17	4	6	78	4	950/1520	38	35
AP4420GH/J	35V	20V	10	24			16/26	6	9.5	74	7.7	1520/2430	52	45
AP9469GH/J	40V	20V	50	72			6/10	2	3	16	3	480/770	18	26
AP9468GH/J	40V	20V	7	9			36/58	4	20	62	12	2235/3580	75	89
AP9965GEH	40V	16V	25	32			8.5/14	1.6	4.1	6.7	4.5	610/980	27	31
AP9962GH/J	40V	20V	20	30			13/21	5	8	38	5	1170/1870	32	35
AP9960GH/J	40V	20V	16	25			18	6	12	110	10	1500	42	45
AP9962GEH/J	44V	20V	25	35			14/22	3	9	48	7	1160/1860	36	31
AP9977GH	60V	25V	90	120			6/10	2	3	11	2	485/780	11	21
AP9973GH/J	60V	25V	80	100			8	3	4	15	3	720	14	27
AP9979GH/J	60V	25V	48	60			11/18	3	6	20	3	990/1560	20	35
AP9971GH/J	60V	25V	36	50			18/30	6	11	24	7	1700/2700	25	39
AP9974GH/J	60V	20V	10.5	15			43/69	8	31	48	67	3180/5100	74	104
AP9987GH/J	80V	25V	90	105			11/18	3	6	12	3	980/1570	15	35
AP9980GH/J	80V	25V	45	55			18/30	5	11	20	30	1810/2900	21.3	41
AP25N10GH/J	100V	20V	80				19/30	5	6	28	2	1060/1700	23	96
AP09N20H/J	200V	30V	380				23	4	13	25	16	500/800	8.6	69
AP18N20GH	200V	20V	170				19/30	5	6	21	19	1065/1700	18	89
AP01L60H/J	600V	30V	12000				4	1	1.1	5	9.2	170	1	39
AP01N60H/J	600V	30V	8000				7.7	1.5	2.6	5	7	286	1.6	39
AP03N70H/J	600V	30V	3600				12	3	5	5	6	600/960	3.3	54
AP03N70H-H	700V	30V	4400				12	3	4	6	8	590/950	2.5	54
AP02N60H/J-H	700V	30V	8800				14/20	2	8.5	12	9	155/240	1.4	39
AP02N90H/J	900V	30V	7200				12/20	4	2	5	9	630/1000	1.9	62.5

TO-252(D-PAK)/TO-251(I-PAK) P-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
AP3310GH/J	-20V	12V		150	250		6	1.5	0.6	60	60	300	-10	25
AP20P02GH/J	-20V	12V		52	85		13.5	2.1	1.6	20	27	1050	-18	31
AP3403GH/J	-30V	20V	200	400			3.8	1.7	1.6	20.8	4.4	217	-10	31
AP9435GH/J	-30V	20V	50	90			10/16	3	5	18	14	463/740	-20	31
AP40P03GH	-30V	20V	28	50			14/22	3	9	56	57	915/1465	-30	31
AP4435GH/J	-30V	20V	20	36			20/32	4	15	50	76	1230/1970	-40	45
AP6679GH/J	-30V	25V	9	15			42/67	6	25	35	78	2870/4590	-75	89
AP4415GH/J	-35V	25V	36	60			11/18	2	4	52	7	990/1580	-24	31
AP4417GH/J	-35V	20V	75	110			6/10	1.4	3.5	18	4	400/640	-15	26
AP4419GH/J	-35V	20V	38	68			12/20	3	8	40	56	700/1120	-25	35
AP9569GH/J	-40V	20V	90	130			8/13	1.6	4	5	5	500/800	-14	26
AP9567GH/J	-40V	25V	50	70			11/18	3	6	43	45	880/1400	-22	35
AP9563GH/J	-40V	25V	40	60			19/30	4	8	37	80	1460/2340	-26	45
AP9565GEH/J	-40V	16V	38	48			10/16	2	6	6	16	765/1230	-24	35.7
AP9575GH/J	-60V	25V	90	120			17/27	5	6	19	53	1660/2660	-15	36
AP9576GH/J	-60V	20V	100	120			14/22	3	6	18	56	1170/1880	-14	36
AP9578GH/J	-60V	25V	160	200			10/16	2	4	13	29	760/1220	-10	28
AP9585GH/J	-80V	25V	180	200			19/30	5	7	15	56	1740/2780	-11.2	45
AP15P10GH/J	-100V	20V	230				37/60	5	15	25	36	1180/1900	-15	96
AP13P15GH/J	-150V	20V	300				38/60	5	15	21	36	1210/1940	-13	96
AP9120GH/J	-200V	20V	680				20/32	5	13	14	28	1210	-8	96

APAK

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
N-channel														
AP1203GMA	30V	20V	12	25			13/20	3.3	8	65	5	1040/1660	45	37
AP0903GMA	30V	20V	9	18			16.5	5	10.3	105	8.5	1485	60	45
AP0603GMA	30V	20V	6	10			33/52	7.5	24	77	67	2700/4200	75	62.5
AP0503GMA	30V	12V	4.2	6	9		52/83	8	21	83	115	5130/8200	75	70
AP9962GMA	40V	20V	20	30			14/22	3	9	48	7	1160/1860	36	37

PMPAK

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
AP1203GMT	30V	20V	12	16			13.2/21	2.2	7.8	6	8	760/1220	16	5
AP0603GMT	30V	20V	6	9			32/51	5	18	9	22.5	2060/3300	23	5

SO-8 Single N-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
AP4434GM	20V	12V	33	18.5	25		17/27	1.7	5.8	10	7.5	940/1500	8.3	2
AP4412GM	25V	20V	8.5	60			7	1.5	5	22	6	218	7	2
AP4880GEM	25V	16V	30	15			23/37	3.5	17	11	25	900/1440	14	2.5
AP6618GM	30V	20V	13/18	50			8.4	2.1	4.7	5.2	4.4	645/800	7	2.5
AP4800AGM	30V	25V	15	21/28			11/18	3	7	6	7	840/1350	9.6	2.5
AP4432GM	30V	20V	13.5	28			12.5/20	2.8	8	8.5	20.5	780/1250	10	2.5
AP4410GM	30V	20V	13.5	22			16.6	4	7	16	15	1160	10	2.5
AP4810GSM	30V	20V	11	20			13/20	2.2	7	7	8	750/1200	11	2.5
AP6680AGM	30V	20V	11	16.5			17/27	2.7	9.9	9	8	1000/1600	12	2.5
AP6680GM	30V	20V	9	18			16.8	4.2	8	7.3	18.6	1450	11.5	2.5
AP4880AGM	30V	20V	9	15			22.5	3.3	15.4	16	50	813	13	2.5

SO-8 Single N-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
AP4424GM	30V	20V	6.5	14			23	6	14	8	16	1920/3070	13.8	2.5
AP4426GM	30V	20V	6	10			28/45	5	16	8	17	2000/3200	16	2.5
AP4428GM	30V	20V	4	10			34/54	7.1	20	9.4	22	2710/4340	16	2.5
AP4430GEM	30V	12V	10	5	8		63/100	6	26	8	45	4600/7360	20	2.5
AP9408GM	30V	20V	5.5	12			13/21	2.2	7	6	9	860/1380	13.3	3
AP9412GM	30V	20V	9	6.5			26/42	4.6	16	7	20	2020/3230	18	3
AP4425GM	35V	20V	6.6	13			23/37	3.7	15	8	15	1300/2080	13	2.5
AP4427GM	35V	20V	50	10			35/56	7	22	24	17	2850/4560	16	2.5
AP9469GM	40V	20V	25	72			6/10	2	3	16	3	480/770	5.5	2.5
AP9465GEM	40V	16V	15	32			8.5/14	1.6	4.1	6.7	4.5	610/980	7.8	2.5
AP9985GM	40V	20V	90	25			14.7	7.1	6.8	6.3	12.6	1725	10	2.5
AP9477GM	60V	25V	64	120			6/10	2	3	5	3	510	4	2.5
AP9478GM	60V	25V	45	72			9/15	2	5	6	4	710/1140	4.8	2.5
AP9479GM	60V	25V	40	60			11/18	2.7	6	4	5	960/1540	5.6	2.5
AP9475GM	60V	25V	85	50			19/30	5	10	6	10	1670/2670	6.9	2.5
AP9487GM	80V	25V	45	100			11/18	3	5.5	4	5	1010/1620	4	2.5
AP9685GM	80V	20V		50			19/30	5	10	6	22	1710/2730	5.3	2.5

SO-8 Single P-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
AP4413GM	-20V	20V	30	40	65		17	4	7	11	13	1140/1820	-7.8	2.5
AP9620GM	-20V	8V		20	35		30	6	3.5	500	300	2158	-9.5	2.5
AP3801GM	-30V	20V	70	105			6/10	1.3	3	6	4	410/660	-5	2.5
AP9435GM	-30V	20V	50	90			9/15	3	5	8	17	507/810	-5.3	2.5
AP4411GM	-30V	25V	25	40			14	1.7	10.5	7	28	855/1360	-8.2	2.5
AP4435GM	-30V	20V	20	32			18/29	10	2.7	8	75	1055/1690	-9	2.5
AP4835GM	-30V	25V	16.5/20	30/35			23/37	4	16	10	46	1170/1870	-9.2	2.5
AP4407GM	-30V	25V	14	20			29/46	6	4	12	70	2600/4100	-10.7	2.5
AP4423GM	-30V	25V	15	25			27	3	20	12	25	1500/2400	-11	2.5
AP6679GM	-30V	25V	9	13			37/60	3	25	11	43	2860/4580	-14	2.5
AP4415GM	-35V	25V	32	50			11/18	2	6	5	8	980	-7.3	2.5
AP4409GM	-35V	25V	10	15			38/60	8	20	10	31	3300/5280	-13	2.5
AP4409GEM	-35V	20V	7.5	15			55/90	10	30	10	110	4100/6600	-14.5	2.5
AP9569GM	-40V	20V	90	130			8/13	1.6	4	5	5	500/800	-4.2	2.5
AP9567GM	-40V	25V	50	80			11/18	3	5	5	6	880/1400	-6	2.5
AP9563GM	-40V	25V	40	60			19	5	8	7	38	1600/2560	-6	2.5
AP9565GEM	-40V	16V	38	48			12.8/20	2.1	6.3	6	36.9	980/1570	-6.5	2.5
AP9564GM	-40V	25V	28	40			27/43	6	14	8	17	2240/3600	-7.3	2.5
AP9578GM	-60V	25V	170	200			10/16	2	4	13	29	760/1220	-3	2.5
AP9575GM	-60V	25V	90	120			18/28	5	7	5	32	1745/2790	-4	2.5
AP9576GM	-60V	25V	90	120			15/24	2	5	5	7	1170/1880	-4	2.5
AP9585GM	-80V	25V	180	200			18/28	5	7	6	30	1790/2860	-2.7	2.5

SO-8 Dual N-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
AP9926GM	20V	12V		30	45		23/35	4.5/7	7/11	70/140	65/130	1035	6	2
AP9926GEM	20V	12V		30	45		12.5	1	6.5	9	6.8	355	6	2
AP4924GM	20V	12V		35	50		9	1.8	4.2	14	15	300	6	2
AP9928GEM	20V	12V		23	32		17/27	2	9	17	17	500/800	7.3	2
AP4936GM	25V	20V	37	60			6.9	1.2	4.5	17.5	5.5	218	5.8	2
AP4920GM	25V	20V	25	35			10.5	1.9	7.5	9.5	13.5	395	7	2

SO-8 Dual N-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
AP9936GM	30V	20V	50	80			6.1	1.4	3.3	6.4	2.1	240	5	2
AP4228GM	30V	20V	26	40			9/15	2	6	9	6	580/930	6.8	2
AP4232GM	30V	20V	22	32			13/21	3	9	7	8	720/1150	7.8	2
AP4226GM	30V	20V	18	28			20/30	5	12	8	12	1450/2320	8.2	2
AP4226AGM	30V	20V	18	24			14.5/23	2.3	7.7	8.6	8.6	950/1420	8.7	2
AP4224GM	30V	20V	14	20			23/35	6	14	8	16	1910/3070	10	2
AP9965GEM	40V	16V	28	32			8.3/21	1.5	3.6	7	5.4	615/980	6.7	2
AP9962GM	40V	20V	20	30			13/21	5	8	38	5	1170/1870	7	2
AP9960GM	40V	20V	20	32			14.7	7.1	6.8	6.3	12.6	1725/---	7.8	2
AP9964GM	40V	25V	16	21			20/32	5	11	6	42	1940	9	2
AP9977GM	60V	25V	90	120			6/10	2	3	5	3	510	3.5	2
AP9973GM	60V	20V	80	100			8	3	4	15	3	720	3.9	2
AP9971GM	60V	25V	50	60			32.5	4.9	8.8	10	5.5	1658	5	2
AP9975GM	60V	25V	21	27			18/28	5	7	5	32	1745/2790	7.6	2
AP9980GM	80V	25V	52	60			18/30	5	11	20	30	1810/2900	4.6	2
AP9987GM	80V	25V	90	105			11	3	5	4	5	980/1570	3.5	2

SO-8 Dual P-Channel

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
AP4959GM	-16V	8V		67	75	100	13/20	2	4	19	22	920/1780		2
AP4955GM	-20V	12V		45	65		19/30	3	6	10	24	1400/2240	-5.6	2
AP4953GM	-30V	20V	53	90			9/15	2	5	9	12	550/880	-5	2
AP4957GM	-30V	20V	24	36			27/45	5	18	11	25	1670/2670	-7.7	2

SO-8 Dual N + Dual P (i.e. four MOSFETs per package)

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
AP9934GM	35V	20V	48	70			6/10	2	3	5	4	490/780	4.3	1.38
	-35V	20V	72	100			6/10	1	3	5	4	420/1100	-3.6	1.38
AP9932GM	30V	12V	40	50	60		9/15	1.6	4	9	5	630/1000	4.3	1.38
	-30V	12V	70	90	120		10/16	2	3	9	14	690/1100	-3.3	1.38
AP9930GM	30V	25V	33	60			7/10	2	4	10	8	600/960	5.5	1.38
	-30V	25V	55	100			7/11	2	4	8	18	490/790	-4.1	1.38

SO-8 Dual Complementary

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			

Complementary N-N channel

AP6982GM	30V	20V	15/18	23/30			14/22	4	8	7	9	1050/1680	8.8	2
	30V	20V	22/26	36/45			9/15	3	5	6	6	640/1030	7.3	2

Dual N +SBD

AP4816SM	30V	20V	22	30			11/18	3	7	7	7	780/1250	6.7	2
	30V	20V	13	18.5			20/30	5	12	8	12	1450/2320	11.5	2
AP6900GSM	30V	20V	30	37			9/15	2	6	7	6	610/970	5.7	2
	30V	20V	22	29			25/40	4	7	6	12	1170/1860	9.8	2

Complementary N-P channel

AP4500GM	20V			30	45			9	1.8	4.2	65	50	300/480	6	2
	-20V			50	90			14	2	5.6	11	38	940/1500	-5	2
AP4501GM	30V		8	42				8.4	2.1	4.7	5.2	4.4	645	7	2
	-30V		50	90				20	3.5	2	20	27	790	-5.3	2

SO-8 Dual Complementary

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
AP4501SGM	30V		33	50			8.2	2	4.3	5.2	4.4	645	6	2
	-30V		50	90			20	3.5	2	20	27	790	-5.3	2
AP4502GM	20V	12V	16	18	30		12	2.8	2.1	6.5	5.6	520	8.3	2
	-20V	12V	40	45	80		15.4	2.8	2.1	25	30	940	-5	2
AP4503GM	30V	20V	28	42			9/15	2	6	7	6	610/970	6.9	2
	-30V	20V	36	55			9/24	2	5	8	34	960/1540	-6.3	2
AP4505GM	30V		20	28			20/30	5	12	8	12	1450/2320	8.3	2
	-30V		28	45			21/33	3	15	10	52	1170/1870	-7.1	2
AP4507GM	30V		36	60			6	2	3	6	4	430/690	6	2
	-30V		72	120			6	1	3	7	4	400/640	-4.2	2
AP4509GM	30V	20V	14	20			23/65	6	14	10	17	1770/2830	10	2
	-30V	20V	20	30			27/45	4	18	11	25	1580/2530	-8.4	2
AP4517GM	30V	20V	24	30			7/11	1	4	7	8	420/670	7.5	2
	-30V	20V	36	60			15/24	4	9	7	17	970/1560	-6.6	2
AP4532GM	30V	20V	50	70			10.2	1.2	3.4	9	5.5	240	5	2
	-30V	20V	70	90			18.3	3.6	1.5	9	10	760	-4	2
AP9510GM	30V		28	40			10	2	6	7	6	540/870	6.9	2
	-30V		55	90			9	2	6	8	13	580/930	-5.3	2
AP4513GM	35V	20V	36	60			6/10	2	3	7	3	470/750	5.8	2
	-35V	20V	68	100			6/10	1	4	7	4	410/660	-4.3	2
AP4511GM	35V	20V	18/25	29/37			11/18	3	6	7	6	830/1330	7	2
	-35V	20V	32/40	50/60			10/16	2	6	6	7	690/1100	-6.1	2
AP4569GM	40V	20V	42	62			6/10	1.2	3.2	8.8	3.6	330/530	5.8	2
	-40V	20V	75	100			7.3/12	1.3	3.6	7.6	6.8	460/740	-4.2	2
AP4521GEM	40V	16V	36	42			7.4/12	1.6	3.5	19.3	3	590/940	5.8	2
	-40V	20V	72	92			7.3/12	1.3	3.6	17	5	450/720	-4.1	2
AP4523GM	40V	10V	30	40			9/14	2	4	6	3	620/990	6.8	2
	-40V	20V	52	70			12/19	2	6	6	9	820/1310	-5.1	2
AP4525GEM	40V	16V	28	32			9/13	1.5	4	20	4	580/930	6	2
	-40V	16V	42	55			15/24	3	7	17	49	1110/1780	-5	2
AP4563GM	40V	20V	30	40			10/16	4	5	5	7	1100/1760	6.7	2
	-40V	20V	36	48			18/30	4	11	6	36	1570/2500	-6	2
AP4565GM	40V	20V	25	32			17/27	4	10	8	11	1400/2240	7.6	2
	-40V	20V	33	42			20/32	4	10	7	43	1440/2330	-6.5	2
AP4575GM	60V	20V	36	42			18/29	5	10	6	10	1670/2670	6	2
	-60V	20V	72	88			21/34	5	9	6	36	1780/2850	-4.2	2
AP4578GM	60V	20V	55/64	65/80			9/17	3	4	5	7	730/1170	4.5	2
	-60V	20V	100/125	120/150			12/20	2	6	6	6	905/1050	-3	2

TSSOP-8

***Common Drain

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg(nC)	Qgs	Qgd	Tr	Tf			
Dual N-channel														
AP9926TGO	20V	12V		32	45		9/15	2	4	10	7	550/880	4.7	1
AP9926GO	20V	12V		28	45		12.5	1	6.5	14.5	12	355	4.6	1
AP9926GEO	20V	12V		28	45		12.5	1	6.5	9	6.8	355	4.6	1
AP9928GEO	20V	12V		23	30		15.9	1.5	7.4	9	11	530	5	1
AP6800GEO***	20V	10V		20	25		23.4/37	2.5	11.1	18.4	58	580/930	6	1
AP9922GEO	20V	8V		16	22	30	28/45	4	9	14	58	1630/2600	6.4	1
AP9920GEO	30V	10V		27	36		11/18	1	4	10	7	590/950	4.9	1
Single P-channel														
AP4425GO	-20V	8V		42	52		21/34	6	4.4	39	72	1720/2752	-4.2	1
Dual P-channel														
AP9923GEO	-12V	8V		25	32	40	28/45	3	8	55	100	2250/3600	-7	1

TSSOP-8

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Q _g	Q _{gs}	Q _{gd}	Tr	Tf			

Dual, N+P

AP2851GO	30V	20V	40	60			6/10	2	4	7	3	450	5	1.38
	-30V	20V	80	120			5/8	0.8	3	6	4	430	-3.3	1.38
AP2852GO	30V	20V	32	48			8/13	3	5	6	5	590	5.5	1.38
	-30V	20V	50	75			9/15	2	5	6	9	570	-4.4	1.38

P channel+SBD

AP6923GO	-20V	12V		50	85		15.6	2.1	5.2	9.4	48	660	-3.5	1
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DFN3X3

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Q _g	Q _{gs}	Q _{gd}	Tr	Tf			

Dual, N+P

AP4527GN3	20V	12V		35	52		9.5/15	1.2	4	10	6	600/960	4.7	1.25
	-20V	12V		65	100		10.7/17	1.8	4.7	8	10	740/1180	-3.3	1.25

Dual N

AP2428GN3	30V	10V		27	33		11/18	1.2	3.8	8.5	4.5	545/870	5.5	1.25
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SOT-23

TO236

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Q _g	Q _{gs}	Q _{gd}	Tr	Tf			

P-channel

AP2307GN	-16V	8V		60	70	90	15/24	1.3	4	11	36	985/1580	-4	1.38
AP2301GN	-20V	12V		130(5V)	190(2.8V)		5.2/10	1.36	0.6	9.7	29	295/---	-2.6	1.38
AP2305GN	-20V	12V	53	65	100		10.6	2.32	3.68	3.6	2.6	740/---	-4.2	1.38
AP2313GN	-20V	12V	120	160	300		5/8	1	2	17	5	270/430	-2.5	1.38
AP2315GEN	-30V	16V	1250	2400			1/1.6	0.6	0.4	8	17	30/50	0.84	1.38
AP2303GN	-30V	20V	240	460			6.2	1.4	0.3	8.2	9	230/---	-1.9	1.38
AP2305AGN	-30V	12V	60	80	150	250	10/18	1.8	3.6	15	15	735/1325	-3.2	1.38
AP2309GN	-30V	20V	75	120			5/8	1	3	5	7	412/660	-3.7	1.38
AP2311GN	-60V	20V	200/250	240/300			6/10	1	3	5	3	510/810	-1.8	1.38

N-channel

AP2302GN	20V	12V		85	115		4.4	0.6	1.9	37	5.7	145	2.8	1.38
AP2306GN	20V	12V	30	35	50		8.7	1.5	3.6	14	2.8	603	5.3	1.38
AP2308GEN	20V	6V		600	850		1.2/2	0.4	0.3	36	63	37/70	1.2	1.38
AP2312GN	20V	12V	36	50	75		5/8	1	2.3	9	2	360/580	4.3	1.38
AP2314GN	20V	12V		75	125		4/7	0.7	2	8	3	230/370	3.5	1.38
AP2322GN	20V	8V		120	150	300	7/11	0.7	2.5	12	4	350/560	2.2	0.83
AP2304GN	25V	20V	117	190			5.9	0.8	2.1	11.5	3	110	2.7	1.38
AP2318GEM	30V	16V		1500	2500		1.1/1.8	0.4	0.4	44	55	30/48	1	1.38
AP2304AGN	30V	20V	117	190			3	0.8	1.8	9	2	120/190	2.5	1.38
AP2306AGN	30V	12V	30	35	50	90	8.5	1.5	3.2	20	3	660/1050	5.2	1.38
AP2316GN	30V	20V	42	72			5/8	1	3	8	3	270/430	4.7	1.38
AP2310GN	60V	20V	90	120			6/10	1.6	3	5	3	490/780	3	1.38
AP2N7002K	60V	20V	2000	4000			1/1.6	0.5	0.5	10	29	32/50	0.45	0.7
AP2320GN	100V	20V	5000	9000			1.1/1.8	0.5	0.5	7	4.5	32/51	0.25	1.38

SOT-26 TSOP6, SuperSOT-6

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Q _g	Q _{gs}	Q _{gd}	Tr	Tf			

N-channel

AP2602GY	20V	12V	30	34	50	90	8.7/16	1.5	3.6	14	2.8	603/1085	6.3	2
AP2606GY	30V	20V	28	42			8.8/14	2.1	5.2	6.2	5.3	575/920	7	2

SOT-26 TSOP6, Super SOT-6

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V		Qg	Qgs	Qgd	Tr	Tf			
AP2604GY	30V	20V	45	65			6/10	2	3	8	4	440/705	5.5	2
P-channel														
AP2603GY	-20V	12V	53	65	120		10.6/16	2.32	3.68	3.6	2.6	740/1200	-5	2
AP2605GY	-30V	20V	80	120			5.5/8.8	1	2.6	6	4	400/640	-4	2
Dual N-channel														
AP2626GY	30V	20V	72	120			3.2/5.1	0.9	1.7	10.1	2.3	170/270	3.3	1.2
AP2622Y	50V	20V	1800	3200			1/1.6	0.5	0.5	10	29	32/50	0.52	0.8
Dual P-channel														
AP2623GY	-30V	20	170	280			2.8						-2	1.2
AP2625GY		12V		185	265		4/6	0.5	2	6	3	265/425	-2	1.2
Dual, N + P														
AP2530GY	30V	20V	72	125			3/5	1	2	8	2	170/270	3.3	1.2
	-30V	20V	150	280			3/5	1	2	8	4	150/240	-2.3	1.2
AP2531GY	16V	8V		58	70	85	7/12	0.6	2	11	3	360/580	3.5	1.2
	-16V	8V		125	155	200	6/10	0.8	2	7	24	370/600	-2.5	1.2
MOSFET + Schottky														
AP6924GEY	20V	6V		600	850		1.3/2	0.3	0.5	53	125	38/60	1	0.9
AP6925GY	-16V	8V		150	200		6/10	1	2	18	6	700/1120	-1.6	0.55

SOT-89

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg(nC)	Qgs	Qgd	Tr	Tf			
N-channel														
AP9452GG	20V		38	50	80		6						4	1.25
AP9451GG	-20V	12V		135	240		5.5/9	1	2.5	25	10	270/430	-2.3	1.25
AP9435GG	-30V	20V	50	90			10/16	2	6	7	14	520/830	-4.2	1.25

SOT-223

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
N-channel														
AP9915GK	20V	20V	26	50	80		5	1	2	55	3	360/580	6.2	3.2
AP2732GK	30V	20V	90	40			9/15	2	5	5	5	600/960	8.6	2.7
AP9477GK	60V	20V	50	110			6.5/10.5	1.5	3.5	6	3.5	510/820	4.1	2.8
AP9970GK	60V	30V	50	60			11.5/15	2.5	6	5	22.5	910/1450	5.8	2.8
APA2N70K	675V			10000			5.5	1.9	0.5	3.6	44	286	0.2	1.13
P-channel														
AP9435GK	-30V	25V	50	100			9.2/16	2.8	5.2	8	17	507/912	-6	2.7
AP9563GK	-40V	25V	40	60			20/30	4	10	6	36	1600/2560	-6.8	2.7

TO-92

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			
N-channel														
AP01L60T	600V	30V	12000				5/9	1.4	2	5	7	185/300	0.16	0.83
AP01L60AT	600V	30V	12000				6/10	1	2.5	5	9.2	170/270	0.16	0.83
AP4002T	600V	30V	5000				12/19	2	5.5	12	19	375/600	0.4	2

SOT-323 (SC70) (SOT-563 6 lead) (SC89)

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg	Qgs	Qgd	Tr	Tf			

N-channel

AP1332GEU	20V	8V		600	1000		1.3/2	0.3	0.5	53	125	38/60	0.6	0.35
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P-channel

AP1331GU	-25V	20V	400	600			2	1	1.5	30	4	100	0.5	0.35
AP1333GU	-20V	12V	600	800	1000		1.7/2.7	0.3	0.4	8	2	66/105.6	0.55	0.35

J-Lead (2021-8)

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg(nC)	Qgs	Qgd	Tr	Tf			

N-channel

AP1802GU	20V	12V	27	32	50		9/15	1.5	4	10	5	620/990	5.8	1.6
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P-Channel

AP1801GU	-20V	12V	52	70	100		11/18	2	4	16	16	740/1180	-4	1.6
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J-Lead (2928-8)

***Common Drain

Part No.	BV _{DSS} (V)	V _{GS} (V)	R _{DS(ON)} max (mΩ)				Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)	P _D (W)
			V _{GS} @10V	V _{GS} @4.5V	V _{GS} @2.5V	V _{GS} @1.8V	Qg(nC)	Qgs	Qgd	Tr	Tf			

Dual N-channel

AP2422GY***	30V	12V	32	40	60		8/13	1.3	4	11	5	480/770	4.8	1.38
AP2428GEY***	30V	10V		27	36		11/18	1	4	10	7	610/980	5.9	1.38
AP2426GEY***	20V	5V		24	32		10/16	1.6	4	11	6	715/1150	6.3	1.38

Dual, N + P

AP2451GY	20V	12V	32	37	55		9/15	1.5	4	10	5	620/900	5	1.38
	-20V	12V	57	75	105		11/18	2	4	16	16	740/1180	-3.7	1.38

IGBT SELECTION GUIDES

TO-252/TO-251/SO-8 Strobe Flash

Part No.	BV _{CES} (V)	V _{GE} (V)	V _{ce(sat)} max (V)		ICM(A)	Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)
			V _{ge@15V}	V _{ge@4.5V}		Qg	Qgs	Qgd	Tr	Tf		

N-channel

AP20G45GEH/J	450V	6V		8		51						130
AP25G45GEM	450V	6V		8		64.5						150
AP28G45GEM	450V	6V			6	74						130

High Speed IGBT TO-3P

Part No.	BV _{CES} (V)	V _{GE} (V)	V _{ce(sat)} typ/max (V)		ICM(A)	Gate Charge (nC)			Switch Time		Ciss (pF)	I _D (A)
			IC=30A	IC=60A		Qg	Qgs	Qgd	Tr	Tf		

AP90G27W	270V	30V	1.6/2.1(50)		200	147/235	20.5	65.6	90	90/150	3235/5180	90
AP85G33W	330V	30V	1.6/2.1(50)	2.3/3(100)	200	120/190	23	60	150	100	2800/4500	85
AP30G120W	1200V	30V	2.1/2.7	2.7/-	160	45/72	6	20	15	230	1240/1990	30
AP30G120SW	1200V	30V	3/3.6	3.8/-	160	55/88	12	27			1320/2110	30

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