



FEATURES

- Power Conversion ICs for:
 - Distributed power; Off-line and Computer point of use; Portable computers, communications and other battery
- Power Management ICs for:
 - Lilon battery protection and battery disconnect switch.
- Current limiter and Automotive transceivers
- Motor Control ICs
- Analog switches
- Analog multiplexers

TYPE	PACKAGE	DESCRIPTION	INPUT VOLTAGE V	MODE	MAXIMUM OSCILLATOR FREQUENCY (MHz)	REFERENCE VOLTAGE (V)	MAXIMUM SUPPLY CURRENT (mA)
SWITCHING REGULATORS - Distributed Power							
Si9100	PDIP-14						
	PLCC-20	Buck, Flyback, Forward	–	Current	1	4	1
	PDIP-14						
Si9102	PLCC-20	Buck, Flyback, Forward	10 - 120	Current	1	4	1
Si9104	SO-16WB	Buck, Flyback, Forward	10 - 120	Current	1	4	1
	SO-16WB						
	PDIP-14						
Si9105	PLCC-20	Buck, Flyback, Forward	10 - 120	Current	1	4	0.5
	SO-16WB						
	PDIP-14						
Si9108	PLCC-20	Buck, Flyback, Forward	10 - 120	Current	1	4	0.5
	SO-14						
Si9110	PDIP-14	Buck, Flyback, Forward	10 - 120	Current	1	4	1
	SO-14						
Si9111	PDIP-14	Buck, Flyback, Forward	10 - 120	Current	1	4	1
	SO-14						
Si9112	PDIP-14	Buck, Flyback, Forward	–	Current	1	4	1
Si9113	SO-14	Buck, Flyback, Forward	23.5-200	Current	0.5	1.3	1.4
	SO-14						
Si9114A	PDIP-14	Buck, Flyback, Forward	15 - 200	Current	1	4	3
Si9117	SO-16	Buck, Flyback, Forward	15 - 200	Current	1	4	4.5
Si9118	SO-16	Boost, Flyback, Forward	10 - 200	Current	1	4	2.5
Si9119	SO-16	Boost, Flyback, Forward	10 - 200	Current	1	4	2.5
Si9121-5	SO-8	Buck/Boost Converter	-10 to -60	Current	0.11	1.25	1.5
Si9121-3.3	SO-8	Buck/Boost Converter	-10 to -60	Current	0.11	1.25	1.5
		Triple outut, individual					
Si9122	TSSOP-20		12 to 75	Voltage	600	3.3	
Si9138	SSOP-28	On/Off Control Power Supply Controller	5.5 - 30V	Current	0.33	3.3	1.8
SWITCHING REGULATORS - Off-line							
Si9120	SO-16						
	PDIP-16	Buck, Flyback, Forward	15 - 450	Current	1	4	1.5
SWITCHING REGULATORS - Computer Point-of-Use							
Si9140	SO-16	Buck	2.7 - 8	Voltage	2	1.5	1
Si9142	SO-20	Buck	4.75 - 13.2	Voltage	1	1.3	1.2
Si9143	SSOP-24	Buck, ISHARE	4.75 - 13.2	Voltage	1	1.3	1.2
Si9145	SO-16	Buck, Boost, Flyback, Forward	2.7 - 8	Voltage	2	1.5	1.4
	TSSOP-16						
SWITCHING REGULATORS - Portable Computer and Conversion							
Si786	SSOP-28	Dual Synchronous Buck	5.5 - 30	Current	0.3	3.3	1.6
Si9130	SSOP-28	Dual Synchronous Buck	5.5 - 30	Current	0.3	3.3	1.6
Si9135	SSOP-28	Triple Output, SMBus	5.5 - 30	Current	0.3	3.3	1.8
Si9136	SSOP-28	Triple Output	5.5 - 30	Current	0.3	3.3	1.8
		Triple output, sequence					
Si9137	SSOP-28	selectable controller	5.5 - 30	Current	0.33	3.3	1.8
Si9139	SSOP-28	Buck, Buck-Boost	4.5 to 30	Current	300		



TYPE	PACKAGE	DESCRIPTION	INPUT VOLTAGE V	MODE	MAXIMUM OSCILLATOR FREQUENCY (MHz)	REFERENCE VOLTAGE (V)	MAXIMUM SUPPLY CURRENT (mA)
SWITCHING REGULATORS - Portable Communications							
Si9160	TSSOP-16	Boost	2.7 - 7	Voltage	2	1.5	1.5
Si9161	TSSOP-16	Boost, Light Load	2.7 - 7	Voltage	2	1.5	1.5
Si9165	TSSOP-20	Buck, Boost, PWM/PSM 600mA	2.7 - 7	Voltage	2	1.3	0.75
Si9166	TSSOP-16	Buck, Boost, PWM/PSM	2.7 - 7	Voltage	2	1.3	0.75
Si9167	TSSOP-20	Buck, PWM/PSM, 600mA	–	Voltage	2	1.3	1.35
Si9168	TSSOP-16	Buck, Boost, PWM/PSM	–	Voltage	2	1.3	1.1
Si9169	TSSOP-20	Buck, Boost, PWM/PSM, 1A	2.7 - 7	Voltage	2	1.3	0.75
Si9172	MSOP-10	Bypass Converter with dynamically adjustable output voltage	2.7 - 6	Voltage	–	1.2	0.25
Si9174/5/6	MSOP-10, MLP33	High performance synchronous buck converter with adjustable output voltage for 1-cell Li+ (Si9174); High performance synchronous buck converter with adjustable output voltage for 1-cell Li+ (Si9175/6)	2.6 - 6		2000	0.4 (Si9174) 1.3 (Si9175/6)	
SWITCHING REGULATORS - Other Battery							
Si9150	SO-14	Buck	–	Voltage	0.3	2.5	3
TYPE	PACKAGE	DESCRIPTION	MAXIMUM INPUT VOLTAGE (V)	MAXIMUM OUTPUT VOLTAGE (V)	OSCILLATOR FREQUENCY (KHz)	EFFICIENCY (%)	
SWITCHING REGULATORS - Charge Pump							
GS7660 Six7660*	SOP-8 PDIP-8	Switched capacitor Voltage converter	1.5 - 6.0	12	10 - 50	98 - 99.9	
TYPE	FUNCTION	SUPPLY VOLTAGE	OUTPUT DRIVE CAPACITY	INPUT DRIVE REQUIREMENTS	FEATURES	PACKAGE	PROTECTION
MOSFET DRIVERS							
Si9910	High Voltage MOSFET Driver	11 - 16 for Driver	Drivers 1 N-Ch. MOSFET	12-V	dv/dt, di/dt Control	DIP-8, SO-8	Short Circuit Over Current,
Si9912	Half Bridge MOSFET Driver	4.5 - 30V	Drives 2 N-Ch. MOSFET	Logic 5V, TTL/CMOS	250-kHz to 1 MHz switching Frequency. Shutdown Quiescent current	SO-8	Under Voltage Under Voltage Shoot Through
Si9913	Half Bridge MOSFET Driver	4.5 - 30V	Drives 2 N-Ch MOSFET	5V, TTL/CMOS	250-kHz to 1 MHz switching Frequency. Synchronous switch enable	SO-8	Under Voltage Shoot Through

*Future Part Number



TYPE	PACKAGE	DESCRIPTION	INPUT VOLTAGE (V)	OUTPUT VOLTAGE (V)			
LINEAR REGULATORS							
LM317XX	TO-220	1.5A 3-Terminal	- 8 - - 40	Adjustable			
Six317XX*	TO-263	Positive	3.5 - 40				
MC78XX	TO-220	1A 3-Terminal Fixed	8 - 40	5, 6, 8, 9			
Six78XX*		Positive		10, 12, 15, 18, 24			
MC79XX	TO-220	1A 3-Terminal Fixed	8 - 40	5, 6, 8			
Six79XX		Negative		9, 12, 15, 18, 24			
MC78LXX	TO-92	100mA 3-Terminal Fixed	8 - 40	5, 8, 9, 12			
Six78LXX*	SOT-89, SOP-8	Positive		15, 18, 24			
MC79LXX	TO-92	100mA 3-Terminal Fixed	8 - 40	5, 9, 12			
Si79LXX*	SOT-89, SOP-8	Negative		15, 18, 24			
LINEAR REGULATORS - LDO							
GS1084	TO-252	5A Low Dropout	2.5 - 7.0	1.8, 2.5, 3.3 and			
Six1084*	TO-263, TO-220	Positive		adjustable			
GS1085	TO-252	3A Low Dropout	2.5 - 7.0	1.8, 2.5, 3.3 and			
Six1085*	TO-263, TO-220	Positive		adjustable			
GS1086	SOT-223	1.5A Low Dropout	2.5 - 7.0	2.5, 2.85, 3.3,			
Six1086*	TO-252, TO-263, TO-220	Positive		5.0 and adjustable			
GS1117	SOT-223	800MA Low Dropout	2.5 - 7.0	2.5, 2.85, 3.3,			
Six1117*	TO-252, TO-263, TO-220	Positive		5.0 and adjustable			
Si9181	TSSOP-8	350mA Low Drop Out, Low Noise, Fast Transient Response, Error Flag with Delay/Power On Reset	-	1.5, 1.8, 2.0, 2.5, 2.8, 3.0, 3.3, 5 and adjustable			
Si9182	MSOP-8	250mA, Low Drop Out, Low Noise, Fast Transient Response, Error Flag with Delay/Power On Reset	-	1.5, 1.8, 2.0, 2.5, 2.8, 3.0, 3.3, 5 and adjustable			
Si9183	SOT-23	150mA, Low Drop Out, Low Noise, Fast Transient Response	-	2.5, 2.7, 2.8, 2.85, 3.0, 3.3, 3.6, 5 and adjustable			
Si91821	MSOP8	LDO regulator with error Flag	2.35 - 6	2.775			
Si91841/Si91843	SOT-23-5	Noise CMOS LDO Regulator	2 - 6	1.5 to 5V			
Si91842/Si91844	SOT-23-5	150mA extremely Low Noise CMOS LDO Regulator with Error Flag	2 - 6	1.5 to 5V			
Si91845/Si91846	SO23-5	150mA Low-noise SOT-23 CMOS LDO Regulator	2 - 6	1.2, 1.8, 2.0, 2.2, 2.5, 2.6, 2.7, 2.8, 2.85, 2.9, 3.0, 3.3, 3.5, 3.6, 5.0			
Si9185	MLP33PAK	Micropower 500mA CMOS LDO Regulator with Error Flag/Power-On Reset	2 - 6	1.2, 1.5, 1.8, 2.0, 2.5, 2.8, 3.0, 3.3, 5.0, ADJ			
TYPE	PACKAGE	DESCRIPTION	INPUT VOLTAGE (V)	OUTPUT VOLTAGE (V)	REFERENCE VOLTAGE (V)	REFERENCE TOLERANCE (%)	MAX. INPUT CURRENT (mA)
VOLTAGE REFERENCES - Shunt Regulators							
SG431A	SOT-23	Adjustable precision	3 - 30	3 to 25	2.495	1	200
Six431A*	SOT-89, TO-92, SOP-8	Shunt regulator					
GS431B	SOT-23	Adjustable precision	3 - 30	3 to 25	2.495	0.5	200
Six431B*	SOT-89, TO-92, SOP-8	Shunt regulator					
TL431	SOT-23	Adjustable precision	3 - 30	3 to 25	2.495	1.6	200
Six431*	SOT-89, TO-92, SOP-8	Shunt regulator					

*Future Part Number



TYPE	PACKAGE	DESCRIPTION	INPUT VOLTAGE (V)			OUTPUT VOLTAGE (V)		
LINEAR REGULATORS - PC Card								
Si91822	MSOP-8	Micropower 300mA CMOS IDO Regulator with Error Flag/Power-On Reset	2 - 6			1.2, 1.5, 1.8, 2.0, 2.5, 2.8, 3.0, 3.3, 5.0, ADJ		
Si91860	SO-8	400mA Smart dual regulator, 3 input voltages	3.3, 5V and 5V			3.3V		
Si91861	SO-8	400mA Smart dual regulator, 2 input voltages	3.3 and 5V			3.3V		
SWITCHING								
TYPE	PACKAGE	DESCRIPTION	V _{CC}	V _{PP}	12-V SUSPEND CAPABILITY	V _{CC} RISE TIME	MAXIMUM ON-RESISTANCE	
							V _{CC} (I = 500mA)	V _{CC} (I = 120mA)
PC CARD								
Si9706	SO-8	Single	-	-	-	Programmable	70 mOhm	n/a
Si9707	SO-16	Dual	-	-	-	Programmable	70 mOhm	n/a
Si9712	SO-16	Single	-	-	-	Programmable	70 mOhm	150 mOhm
Si9711	SO-16	Single	-	-	-	200 ms (min)	200 mOhm	300 mOhm
CELL MEASUREMENT								
TYPE	PACKAGE	DESCRIPTION	ACCURACY	CURRENT LIMIT ACCURACY	OVER DISCHARGE	LOW CHARGE	NORMAL TOP-OFF	
LION BATTERY PROTECTION								
Si9730	SO-8	2-Cell Protection	- 50mV	- 50mV	-	CHARGE PROTECTION FEATURES		
Si9730	2 x SO-8	4-Cell Protection	- 50mV	- 50mV	-	-	-	-
CELL MEASUREMENT								
TYPE	PACKAGE	DESCRIPTION	BATTERY TYPE	MEASUREMENT ACCURACY	VIN RANGE	MAX INPUT CURRENT		
BATTERY CHARGER								
Si9731	TSSOP-16	µP Controlled Battery Charger	1 Cell Li-Ion or 1 cell to 3 cell NiCd/NiMH	± 50 mV	3-12 V	1.2A		
BATTERY DISCONNECT SWITCH								
TYPE	PACKAGE	DESCRIPTION	UVLO	VIN	RDS (ON)	SHUT-DOWN	SHUTDOWN CURRENT (fA)	QUIESCENT CURRENT (mA)
Si9717	SO-16	Battery Disconnect	3	6 to 18	60 mOhm	-	10	50
Si9718	SO-16	Battery Disconnect	3	6 to 18	80 mOhm	-	10	50
BATTERY DISCONNECT SWITCH								
TYPE	PACKAGE-U PROCESSOR	DESCRIPTION	INPUT VOLTAGE (V)		RESET VOLTAGE (V)		OUTPUT ACTIVE	
GS809C Six809C*	SOT-23	3 Pin uP Reset Circuit	1 - 5.5		2.1 - 4.63		Low	
GS810C Six810C*	SOT-23	3 Pin uP Reset Circuit	1 - 5.5		2.1 - 4.63		High	
GS6332 Six6332*	SOT-23	3 Pin uP Reset Circuit	1 - 5.5		1.5 - 2.5		High	
GS6333 GS6333*	SOT-23	3 Pin uP Reset Circuit	1 - 5.5		1.5 - 2.5		Low	

*Future part Number



TYPE	PACKAGE	DESCRIPTION	VIN	FEATURES			
Si9750	CURRENT LIMITER SO-16	In-Rush Current Limit MOSFET Driver	2.9V to 13.2 V	Preset/Programmable di/dt Current			
TYPE	FUNCTION	SUPPLY VOLTAGE	OUTPUT DRIVE CAPACITY	INPUT DRIVE REQUIREMENTS	FEATURES	PACKAGE	PROTECTION
Si9961	Voice Coil Motor Cont.	12	1A	Analog	Linear Current Mode	SO-24 Widebody	Under Voltage
Si9976	Half-Bridge Driver	20 - 40	Drives 2 N-Ch. MOSFETs	TTL/	High-Side Bootstrap	SO-14	Short Circuit,
Si9978	Bridge Driver H-Bridge Driver/ Dual 1/2 H-Bridge Driver	20-40	Drives 4 N-Ch. MOSFETs	CMOS TTL? CMOS	DC Operation PWM, Brake, DC Operation	SO-24 Widebody	Under Voltage Over Current, Under Voltage
Si9979	3-Phase Brushless Motor Cont.	20-40	Drives 6 N-Ch. MOSFETs	TTL/	PWM 60 and 120 Hall Sensor Commutation DC Operation	SQFP-48	Over Current
Si9986	Buffered H-Bridge	3.8 - 13.2	0.5A	CMOS	PWM, Saturated	SO-8	Under Voltage, Commutation Error Shoot Through
Si9987	Buffered H-Bridge	3.8 - 13.2	1A	TTL/ CMOS	PWM, Saturated	SO-8	Shoot Through
Si9988	Buffered H-Bridge	3.8 - 13.2V	0.6A	TTL/CMOS	PWM, Saturated	TSSOP-8	Shoot Through
Si9990	HDD VCM Driver/ Spindle Motor Driver	5	1.2-A Spindle, 0.5-A VCM	TTL/	Current Mode PWM Spindle, Current Mode Analog, VCM, Auto Head Retract	SQFP-64	Under Voltage
Si9993	HDD Large Capacity VCM/ Spindle Motor Driver	12 and 5	Drives 5 Complementary Half-Bridges and 1 P-Ch Blocking FET	CMOS Analog TTL/ CMOS Analog	Current Mode PWM Spindle, Current Mode Analog, VCM, Direct Head Retract	SQFP-64	Under Voltage
TYPE	DESCRIPTION	FUNCTION	AMBIENT TEMPERATURE	BUS	FEATURES	PACKAGE	
AUTOMOTIVE TRANSCEIVER ICs							
Si9200EY	CAN Bus Driver and Receiver	CAN	- 40 to 125°C	Differential	1 Mbit/sec K only	SO-8	
Si9241A	Single-Ended Bus Transceiver	ISO-9141	- 40 to 125°C	Single-Ended	200K Baud Transmit Speed K and L	SO-8	
Si9243A	Single-Ended Bus Transceiver	ISO-9141	- 40 to 125°C	Single-Ended	200K Baud Transmit Speed	SO-8	

*For new designs use AEY products listed in table.

Analog Switches and Multiplexers

Vishay



TYPE	MAX. $r_{DS(on)}$ (Ω)	MAX. $I_{S(off)}$ (nA)	MAX. t_{ON} (ns)	TYP. Q_{inj} (pC)	MAX. SUPPLY RANGE (V)	ON-CHIP LOGIC REGULATOR	MAX. POWER CONSUMPTION (mW)	PACKAGE	COMMENTS
ANALOG SWITCHES - 1-Channel SPST									
DG9421	3	0.2	45	0.6	13	–	0.01	V	Low noise, Low Distortion
DG9422	3	0.2	45	0.6	13	–	0.01	V	Low noise, Low Distortion
DG417L	20	0.15	43	1	13	–	0.02	M, Y	Low Voltage
DG418L	20	0.15	43	1	13	–	0.02	M, Y	Low Voltage
DG417	35	0.25	175	60	44	–	0.035	J, K, Y	8-Pin Package
DG418	35	0.25	175	60	44	–	0.035	J, K, Y	8-Pin Package
ANALOG SWITCHES - 2-Channel SPST									
DG2003	2.5	1	28	1	6	Yes	0.005	M	2V Operation
DG2004	2.5	1	28	1	6	Yes	0.005	M	2V Operation
DG2005	2.5	1	28	1	6	Yes	0.005	M	2V Operation
DG180	10	10	400	N/A	36	–	120	A, P, X	JFET
DG9415	17	0.2	0 to 12	0.056	13	Yes	0.012	M	Low Voltage, Low Glitch
DG181	30	1	150	N/A	36	–	120	A, P, X	JFET
DG9232	30	5.0	50	1	13	–	–	M, Y	–
DG9233	30	5.0	50	1	13	–	–	M, Y	–
DG401	35	0.25	150	60	44	–	0.035	J, K, Z	–
DG9262	40	0.1	75	5	13	Yes	0.012	M, Y	Low Glitch
DG9263	40	0.1	75	5	13	Yes	0.012	M, Y	Low Glitch
DG300A_MIL	50	1	300	8	44	–	9.75	A, K, P	MIL Only
DG300B	50	1.0	300	8	44	–	9.75	J	–
DG304A_MIL	50	1	250	30	44	–	0.03	A, K, P	MIL Only
DG304B	50	1.0	250	30	44	–	0.03	J	–
DG381A_MIL	50	1.0	300	10	44	–	9.75	K	MIL Only
DG381B	50	1.0	300	10	44	–	9.75	J	–
DG200A_MIL	70	2.0	100	-10	44	Yes	45.0	A, K	MIL Only
DG200B	70	2	1000	-10	44	Yes	45	A, K	–
DG182	75	1	250	N/A	36	–	120	A, P, X	JFET
ANALOG SWITCHES - 4-Channel SPST									
DG641	15	10	70	-19	21	Yes	108	J, Y	Video
DG411L	30	0.1	50	6	13	–	0.06	Y	Low Voltage
DG412L	30	0.1	50	6	13	–	0.06	Y	Low Voltage
DG413L	30	0.1	50	6	13	–	0.06	Y	Low Voltage
DG441L	30	0.2	50	6	13	Yes	0.06	Y	Low Voltage
DG442L	30	0.2	50	6	13	Yes	0.06	Y	Low Voltage
DG411	35	0.25	175	5	44	–	0.035	J, K, Y, Z	–
DG412	35	0.25	175	5	44	–	0.035	J, K, Y, Z	–
DG413	35	0.25	175	5	44	–	0.035	J, K, Y, Z	–
DG611	45	0.25	35	7	21	–	0.035	J, K, Y, Z	Glitchless, Hi-Speed
DG612	45	0.25	35	7	21	–	0.035	J, K, Y, Z	Glitchless, Hi-Speed
DG613	45	0.25	35	7	21	–	0.035	J, K, Y, Z	Glitchless, Hi-Speed
DG271_MIL	50	1.0	65	9	44	Yes	202.50	K, Z	High Speed
DG271B	50	1	65	9	44	Yes	202.5	J, K, Y, Z	High Speed
DG201HS	50	1	50	-5	44	Yes	240	J, K, Q, Y, Z	High Speed
DG213	60	0.5	130	1	44	–	0.035	J, Y, Q	–
DG540	60	10	70	-25	21	Yes	108	J, N, P	Video
DG541	60	10	70	-25	21	Yes	108	J, P, Y	Video
DG201B	85	0.5	300	1	44	Yes	0.765	J, K, Q, Y	–
DG202B	85	0.5	300	1	44	Yes	0.765	J, K, Q, Y	–
DG211B	85	0.5	300	1	44	–	0.35	J, Q, Y	General Purpose
DG212B	85	0.5	300	1	44	–	0.35	J, Q, Y	General Purpose
DG308B	85	0.5	200	1	44	–	0.03	J, K, Q, Y	General Purpose
DG309B	85	0.5	200	1	44	–	0.03	J, K, Q, Y	General Purpose
DG441	85	0.5	250	1	44	Yes	1.5	J, K, Y, Z	–
DG442	85	0.5	250	1	44	Yes	1.5	J, K, Y, Z	–
DG444	85	0.5	250	1	44	–	0.035	J, Y	–
DG445	85	0.5	250	1	44	–	0.035	J, Y	–
DG221B	90	5.0	550	20	34	Yes	37.5	J, Y	Latch
DG308A	100	1	200	-10	44	–	0.03	J, K, Q, Y	–
DG309	100	1	200	-10	44	–	0.03	J, K, Q, Y	–
DG201A_MIL	175	1	600	20	44	Yes	45	K, Z	–
DG202_MIL	175	1	600	20	44	Yes	45	K	–



TYPE	MAX. $r_{DS(on)}$ (Ω)	MAX. $I_{S(off)}$ (nA)	MAX. t_{ON} (ns)	TYP. Q_{inj} (pC)	MAX. SUPPLY RANGE (V)	ON-CHIP LOGIC REGULATOR	MAX. POWER CONSUMPTION (mW)	PACKAGE	COMMENTS
ANALOG SWITCHES - 1-Channel SPDT									
DG2020	1.1	2.3	6	1	6	Yes	0.0033	V	Audio Glitchless
DG3000	2.3	1.2	36	38	6	Yes	0.005	D	2V
DG642	8	10	100	-40	21	Yes	108	J, Y	Video
DG186	10	10	400	N/A	36	–	73	A, P, X	JFET
DG9411	12	1.0	11	10	6	Yes	0.0006	L	2V Operation
DG419L	20	0.15	43	1	13	–	0.02	M, Y	Low Voltage
DG2001	30	0.3	50	10	6	Yes	0.0002	V, Y	2V Operation
DG9431	30	0.01	120	3	13	–	0.006	V, Y	Low Voltage
DG187	30	1	150	N/A	36	–	73	A, P, X	JFET
DG419	35	0.25	175	60	44	–	0.035	J, K, Y	8-Pin Package
DG2002	46	0.25	31	10	6	Yes	0.0022	V	2V Operation
DG301A_MIL	50	1	300	8	44	–	9.75	A, K, Z	MIL Only
DG301B	50	1	150	8	44	–	9.75	J	–
DG305A_MIL	50	1	250	30	44	–	7.65	A, K, P	MIL Only
DG387A_MIL	50	1	300	10	44	–	9.75	A, K	MIL Only
DG387B	50	5.0	150	10	44	–	9.75	J	–
DG9461	50	5	50	3	13	Yes	0.006	V, Y	Low Voltage
DG188	75	1	250	N/A	36	–	73	A, P, X	JFET
ANALOG SWITCHES - 2-Channel SPDT									
DG189	10	10	400	N/A	36	–	120	P, X	JFET
DG643	15	10	70	-19	21	–	108	J, Y	Video
DG190	30	1	150	N/A	36	–	120	P, X	JFET
DG403	35	0.25	150	60	44	–	0.035	J, K, Y, Z	–
DG243	50	1	700	60	44	–	10.5	J	–
DG303A_MIL	50	1.0	300	8	44	–	9.75	K, P, Z	MIL Only
DG303B	50	5.0	150	8	44	–	9.75	J, Y	–
DG307A_MIL	50	1	250	30	44	–	0.3	K, P	MIL Only
DG307B	50	5.0	150	8	44	–	0.3	J	–
DG390A_MIL	50	1.0	300	10	44	–	9.75	K	MIL Only
DG390B	50	5.0	150	8	44	–	9.75	J	–
DG5043	50	1	1200	30	44	–	10.5	J	–
DG542	60	10	100	-25	21	Yes	108	J, P, Y	Video
DG5143	75	5	175	150	36	–	0.035	J	–
DG191	75	1	250	N/A	36	–	120	P, X	JFET
ANALOG SWITCHES - 4-Channel SPDT									
DG9424	1.7	0.2	42	38	12	–	0.017	Q	Low Noise
DG9425	1.7	0.2	42	38	12	–	0.017	Q	Low Noise
DG9426	1.7	0.2	42	38	12	–	0.017	Q	Low Noise
DG333A	45	0.25	175	10	44	–	–	J, Y	–
DG333AL	45	0.25	175	10	44	–	–	J, Y	–
ANALOG SWITCHES - 2-Channel DPST									
DG183	10	10	400	N/A	36	–	120	P	JFET
DG184	30	1	150	N/A	36	–	120	P, X	JFET
DG405	35	0.25	150	60	44	–	0.035	J, K, Y, Z	–
DG302A_MIL	50	1	300	8	44	–	9.75	K, P	MIL Only
DG302B	50	5.0	150	8	44	–	9.75	J	–
DG306A_MIL	50	1	250	30	44	–	0.3	K, P	–
DG306B	50	5.0	150	8	44	–	0.3	J	–
DG384A_MIL	50	5	300	10	44	Yes	16.5	K	MIL Only
DG384B	50	5.0	300	10	44	–	9.75	J	–
DG185	75	1	250	N/A	36	–	120	P, X	JFET

Analog Switches and Multiplexers

Vishay



TYPE	MAX. $r_{DS(on)}$ (Ω)	MAX. $I_{S(off)}$ (nA)	MAX. t_{ON} (ns)	TYP. Q_{inj} (pC)	MAX. SUPPLY RANGE (V)	ON-CHIP LOGIC REGULATOR	MAX. POWER CONSUMPTION (mW)	PACKAGE	COMMENTS
<u>ANALOG MULTIPLEXERS 4-Channel Single-Ended</u>									
DG9414	17	0.2	0 to 12	0.056	13	Yes	0.012	M	Low Voltage, Low Glitch
<u>ANALOG MULTIPLEXERS 4-Channel Differential</u>									
DG9409	3.9	2	70	29	14	Yes	0.012	M	Low Voltage
DG409L	30	0.3	60	5	14	Yes	0.9	Y, Q	Low Voltage
DG534A	90	20	300	-70	21	–	37.9	J, N, P	Video, Latches
DG409	100	1	250	20	44	Yes	0.9	J, K, Q, Y, Z	High Speed
DG429	100	1	250	1	44	Yes	1.58	J, K, N	Latchable, High Speed
DG509A_MIL	400	10	1000	20	44	Yes	58.5	K, Z	MIL Only
DG529	400	10	1000	4	44	Yes	60	J, K	Latchable
DG459	1200	2	500	-	44	Yes	3	J, K, Z	Fault Protected
<u>ANALOG MULTIPLEXERS 8-Channel Single-Ended</u>									
DG9408	3.9	2	70	29	14	Yes	0.012	N	Low Voltage
DG408L	30	0.3	300	5	14	Yes	0.9	Y, Q	Low Voltage
DG538A	90	20	300	-70	21	–	59.5	J, N, P	Video, Latches
DG408	100	1	200	20	44	Yes	0.9	J, K, Q, Y, Z	High Speed
DG428	100	1	250	1	44	Yes	1.58	J, K, N	Latchable, High Speed
DG508A_MIL	400	10	1000	20	44	Yes	59.5	K, Z	MIL Only
DG528	400	10	1000	4	44	Yes	60	J, K, N	Latchable
DG458	1200	2	-	0.5	44	Yes	3	J, K, Z	Fault Protected
<u>ANALOG MULTIPLEXERS 8-Channel Differential</u>									
DG407	100	1	300	15	44	Yes	0.5	J, K, N, Z, W	High Speed
DG507A_MIL	400	5	1000	60	44	Yes	58.5	K, P, Z	MIL Only
<u>ANALOG MULTIPLEXERS 16-Channel Single-Ended</u>									
DG535	90	10	300	-35	18	–	0.75	J, P	Low Power, Video
DG536	90	10	300	-35	18	–	0.75	M, N	Low Power, Video
DG406	100	1	300	15	44	Yes	0.47	J, K, N, W, Z	Low Power, High Speed
DG506A_MIL	400	10	1000	6	44	Yes	58.5	K, Z	MIL Only
<u>SPECIALS</u>									
DG485	85	20	200	17	44	–	0.11	J, N, Z	8-Ch, Serial Control
DG884	90	20	300	-100	21	–	56.5	M, N	8x4 Video Crosspoint

A = Metal Can; D = MICRO FOOT; J = Plastic DIP; K = CerDIP; L = SC-70; M = MSOP; N = PLCC/QFN; P = Sidebrazed; Q = TSSOP; V = TSOP-6; W = SOIC28;
X = Flatpack; Y = SOIC; Z = LCC



Small Signal Discrete and Standard IC Military Products

Vishay

PRODUCT DESCRIPTION	TYPE	-2	JAN TX	JAN TXV	JAN					
SMALL SIGNAL DISCRETE AND STANDARD IC MILITARY PRODUCTS										
JFET Products	2N4117/4118/4119	X	-	-	-					
	2N4338	X	-	-	-					
	2N4392	X	-	-	-					
	2N4856/4857/4858	-	X	X	X					
	2N4859/4860/4861	-	X	X	X					
	2N5114/5115/5116	-	X	X	X					
	2N5432/5434	-	X	-	-					
	2N5545/5546/5547	-	-	X	X					
	2N5564/6	X	-	-	-					
	2N5911	X	-	-	-					
	PADX/DPADX	X	-	-	-					
	U290/1	X	-	-	-					
	U309/10	X	-	-	-					
	U401/4	X	-	-	-					
U421/30/31	X	-	-	-						
Low Power MOS Products	2N6659/6660/6661	X	X	X	X					
	SD210/211/214/215DE	X	-	-	-					
	SD5000	X	-	-	-					
	VP0808B	X	-	-	-					
	VN10KE	X	-	-	-					
	V01000/1001/1004/1006P	X	-	-	-					
	VQ2001P	X	-	-	-					
PRODUCT DESCRIPTION	TYPE	COMMERCIAL		SMD/883				JM38510		
		DIP	METAL CAN	DIP	METAL CAN	LCC	FLATPACK	DIP	METAL CAN	FLATPACK
Switch and Multiplexer Products	DG18X/19X	X	X	X	X	-	X	X	X	X
	DG20X	X	X	X	X	X	X	X	X	-
	DG201HS	-	-	-	X	-	X	-	-	-
	DG221	-	-	X	-	-	-	-	-	-
	DG271	-	-	X	-	X	-	-	-	-
	DG30X	X	X	X	X	X	-	X	X	-
	DG381/384/390	-	-	X	-	-	-	-	-	-
	DG387	-	-	X	X	-	-	-	-	-
	DG401/403/405	X	-	X	-	X	X	-	-	-
	DG411/412/413	X	-	X	-	X	-	-	-	-
	DG417/418/419	X	-	X	-	-	-	-	-	-
	DG441/442	X	-	X	-	X	-	-	-	-
	DG540/541/542	X	-	X	-	-	-	-	-	-
	DG601	-	-	X	-	X	X	-	-	-
	DG611/612/613	-	-	-	X	-	X	-	-	-
	DG406/407/408/409	X	-	X	-	X	-	-	-	-
	DG458/459	-	-	X	-	X	X	-	-	-
	DG506/507/508/509	X	-	X	-	X	X	X	-	X
	DG528/529	X	-	X	X	-	-	-	-	-
DG534/535/538	X	-	X	X	-	-	-	-	-	