

DIODES INC. DC-DC Power Management ICs



Power Management

Diodes Inc.

RoHS Compliant This product is RoHS compliant.

DC-DC CONTROLLERS

MOUSER STOCK NO.	Diodes Inc. Part No.	Type	Package	Input Voltage	Driving Current	Output Channel	Price Each			Reel Qty.	Price Per Piece
							1	25	100		
621-AP2004SG-13	AP2004SG-13	Buck	SOP-8L	28V	200mA	1	1.67	1.53	1.34	2500	.648
621-AP2008SG-13	AP2008SG-13	Buck	SOP-8L	20V	200mA	1	3.11	2.36	2.07	2500	.962
621-AP2014ASL-13	AP2014ASL-13	Buck	SOP-8L	20V	3000mA	1	2.47	2.10	1.76	2500	.702
621-AP2014SL-13	AP2014SL-13	Buck	SOP-8L	20V	3000mA	1	1.62	1.35	1.13	2500	.702
621-AP2001SL-13	AP2001SL-13	Buck/Boost/Inverter	SOP-16L	3.6V - 40V	20mA	2	1.65	1.37	1.15	2500	.715

DC-DC CONVERTERS

MOUSER STOCK NO.	Diodes Inc. Part No.	Type	Package	Input Voltage	Output Voltage	Output Current	Price Each			Reel Qty.	Price Per Piece
							1	25	100		
621-API1603WL-7	API1603WL-7	Boost	SOT26	0.9V - 5.5V	2V - 5.5V	0.3A	2.91	2.47	1.48	3000	1.07
621-API1609SG-13	AP1609SG-13	Boost	SOP-8L	2.5V - 6V	3.0V - 17V	2.4A	2.91	2.47	2.07	2500	1.07
621-API1501A-K5L-U	AP1501A-K5L-U	Buck	TO263-5L	40V	1.23V - 37V	5A	6.37	5.54	4.13	-	-
621-API1501-33K5L-U	AP1501-33K5L-U	Buck	TO263-5L	40V	3.3V	3A	3.54	3.07	2.29	-	-
621-API1501-12K5L-13	AP1501-12K5L-13	Buck	TO263-5L	40V	12V	3A	4.13	3.57	2.31	800	1.54
621-API1501K5L-U	AP1501K5L-U	Buck	TO263-5L	40V	1.23V - 37V	3A	6.37	5.54	4.13	-	-
621-API1501A-12K5L-U	AP1501A-12K5L-U	Buck	TO263-5L	40V	12V	5A	6.60	5.05	3.96	-	-
621-API1506-K5L-13	AP1506-K5L-13	Buck	TO263-5L	24V	1.23V - 18V	3A	2.06	1.97	1.32	800	1.25
621-API1506-33K5L-U	AP1506-33K5L-U	Buck	TO263-5L	24V	3.3V	3A	3.09	2.62	2.20	-	-
621-API1506-33T5L-U	AP1506-33T5L-U	Buck	TO220-5L	24V	3.3V	3A	3.29	2.86	2.13	-	-
621-API1506-50K5L-13	AP1506-50K5L-13	Buck	TO263-5L	24V	5.0V	3A	3.09	2.62	2.20	800	1.25
621-API1506-50K5L-U	AP1506-50K5L-U	Buck	TO263-5L	24V	5.0V	3A	3.29	2.86	1.81	-	-
621-API1506-50T5RL-U	AP1506-50T5RL-U	Buck	TO220-5L(R)	24V	5.0V	3A	3.09	2.83	2.47	-	-
621-API1506-12K5L-U	AP1506-12K5L-U	Buck	TO263-5L	24V	12V	3A	3.54	3.07	2.29	-	-
621-API1506-12T5L-U	AP1506-12T5L-U	Buck	TO220-5L	24V	12V	3A	3.09	2.62	2.20	-	-
621-API1507-33D5L-13	AP1507-33D5L-13	Buck	TO252-5L	24V	3.3V	3A	2.60	2.22	1.86	2500	.962
621-API1507-50D5L-13	AP1507-50D5L-13	Buck	TO252-5L	24V	5.0V	3A	2.60	2.22	1.86	2500	.962
621-API1507-12D5L-13	AP1507-12D5L-13	Buck	TO252-5L	24V	12V	3A	2.60	2.22	1.86	2500	.962
621-API1509-12SL-13	AP1509-12SL-13	Buck	SOP-8L	24V	12V	2A	2.16	1.98	1.79	2500	.806
621-API1510SL-13	AP1510SL-13	Buck	SOP-8L	23V	0.8V - Vcc	3A	4.00	3.47	2.59	2500	1.58
621-API1512-K5L-13	AP1512-K5L-13	Buck	TO263-5L	60V	1.23V - 37V	2A	6.74	6.06	4.49	800	2.82
621-API1512-33K5L-13	AP1512-33K5L-13	Buck	TO263-5L	60V	3.3V	2A	6.74	6.06	4.49	800	2.82
621-API1512-50K5L-13	AP1512-50K5L-13	Buck	TO263-5L	60V	5.0V	2A	6.74	6.06	4.49	800	2.82
621-API1512A-K5L-13	AP1512A-K5L-13	Buck	TO263-5L	60V	1.23V - 37V	3A	7.66	6.99	5.52	800	2.82
621-API1512A-33K5L-13	AP1512A-33K5L-13	Buck	TO263-5L	60V	3.3V	3A	6.74	6.06	4.49	800	2.82
621-API1512A-50K5L-13	AP1512A-50K5L-13	Buck	TO263-5L	60V	5.0V	3A	7.66	6.99	5.52	800	2.82
621-API1513SG-13	AP1513SG-13	Buck	SOP-8L	18V	0.8V - Vcc	2A	2.41	2.20	2.00	2500	.897
621-API1520SL-13	AP1520SL-13	Buck	SOP-8L	23V	0.8V - Vcc	2A	3.28	2.80	2.35	2500	1.22
621-API1604AWG-7	AP1604AWG-7	Buck	SOT25	2.2V - 5.5V	Adjustable	1A	2.54	2.15	1.29	3000	.936
621-API1605SL-13	AP1605SL-13	Buck	SOP-8L	2.5V - 7V	2.5V - 7V	3A	2.91	2.47	2.07	2500	1.07
621-AP34063S8L-13	AP34063S8L-13	Buck/Boost/Inverter	SOP-8L	3V - 40V	Adjustable	1.5A	.63	.58	.50	2500	.314

SINGLE CHANNEL SLEW RATE CONTROLLED LOAD SWITCH

MOUSER STOCK NO.	Diodes Inc. Part No.	Package	Output Turn-on Rise Time	Operating Voltage	Max Switch Current	Price Each			Reel Qty.	Price Per Piece
						1	10	100		
621-AP2280-1FMG-7	AP2280-1FMG-7	DFN2018-6	100µs	1.5V - 6V	2A	.77	.612	.391	3000	.242
621-AP2280-1WG-7	AP2280-1WG-7	SOT25	100µs	1.5V - 6V	2A	.72	.576	.368	3000	.228
621-AP2280-2FMG-7	AP2280-2FMG-7	DFN2018-6	1ms	1.5V - 6V	2A	.77	.612	.391	3000	.242
621-AP2280-2WG-7	AP2280-2WG-7	SOT25	1ms	1.5V - 6V	2A	.72	.576	.368	3000	.228

DUAL CHANNEL USB POWER SWITCHES

Features:

- Over-current and thermal protection
- Reverse current blocking
- Very low shutdown current: 1uA (max)
- Active high or low enable
- 90mΩ on-resistance
- Fault report (FLG) with blanking time (7ms typ)



MOUSER STOCK NO.	Diodes Inc. Part No.	Package	Operating Voltage (V)	Max. Cont. Current (A)	Max. Current Limit (A)	Channels	Price Each			Reel Qty.	Price Per Piece
							1	10	100		
621-AP2146MPG-13	AP2146MPG-13	MSOP8L-EP	2.7 - 5.5	0.5	1	2	.96	.88	.77	2500	.456
621-AP2146SG-13	AP2146SG-13	SOP-8L	2.7 - 5.5	0.5	1	2	.80	.73	.64	2500	.399
621-AP2156MPG-13	AP2156MPG-13	MSOP8L-EP	2.7 - 5.5	0.5	1	2	.96	.88	.77	2500	.456
621-AP2156SG-13	AP2156SG-13	SOP-8L	2.7 - 5.5	0.5	1	2	.80	.73	.64	2500	.399
621-AP2166MPG-13	AP2166MPG-13	MSOP8L-EP	2.7 - 5.5	1.0	1.9	2	1.31	1.20	1.05	2500	.623
621-AP2166SG-13	AP2166SG-13	SOP-8L	2.7 - 5.5	1.0	1.9	2	1.12	1.02	.89	2500	.542
621-AP2176MPG-13	AP2176MPG-13	MSOP8L-EP	2.7 - 5.5	1.0	1.9	2	1.31	1.20	1.05	2500	.623
621-AP2176SG-13	AP2176SG-13	SOP-8L	2.7 - 5.5	1.0	1.9	2	1.12	1.02	.89	2500	.532
621-AP2186MPG-13	AP2186MPG-13	MSOP8L-EP	2.7 - 5.5	1.5	2.6	2	1.63	1.49	1.30	2500	.775
621-AP2186SG-13	AP2186SG-13	SOP-8L	2.7 - 5.5	1.5	2.6	2	1.40	1.28	1.12	2500	.668
621-AP2196MPG-13	AP2196MPG-13	MSOP8L-EP	2.7 - 5.5	1.5	2.6	2	1.63	1.49	1.30	2500	.775
621-AP2196SG-13	AP2196SG-13	SOP-8L	2.7 - 5.5	1.5	2.6	2	1.40	1.28	1.12	2500	.668

LED DRIVER ICs

Features:

- High switching frequency
- PWM/DC input for dimming control
- Built-in output open-circuit protection

Applications:

- Commercial & Industrial lighting
- Small LCD panel backlight
- Architecture detail lighting
- Appliance interior lighting



MOUSER STOCK NO.	Diodes Inc. Part No.	Package	Min-Max Input Volt (V)	Output Voltage (V)	Typ. Peak Output Current (A)	Frequency (kHz) Typ.	Price Each			Reel Qty.	Price Per Piece
							1	25	100		
621-AP8800FNG-7	AP8800FNG-7	DFN3030-10	8 - 28	28	0.35	600	1.03	.90	.79	3000	.60
621-AP8800M8G-13	AP8800M8G-13	MSOP-8L	8 - 28	28	0.35	600	.94	.82	.76	2500	.55
621-AP8800SG-13	AP8800SG-13	SOP-8L	8 - 28	28	0.35	600	.94	.82	.76	2500	.55
621-AP8801M8G-13	AP8801M8G-13	MSOP-8L	8 - 48	48	0.50	500	1.13	.98	.92	2500	.66
621-AP8801SG-13	AP8801SG-13	SOP-8L	8 - 48	48	0.50	500	1.13	.98	.92	2500	.66
621-AP8802FNG-7	AP8802FNG-7	DFN3030-10	8 - 48	48	1.0	500	1.62	1.42	1.25	3000	.94
621-AP8802SG-13	AP8802SG-13	SOP-8L	8 - 48	48	1.0	500	1.35	1.18	1.10	2500	.79