

GaN & SiC Product Selection Guide



Semiconductors - ICs

Linear ICs

Driver ICs and Modules

GaN Gate Driver

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March

2019

Semiconductors - ICs

Linear ICs

Driver ICs and Modules

Gate Driver

	Mfr Part Number	Supplier	Price	Usable Device Voltage (V)	Usable Device Current (A)	Output Current (A)	Short-Circuit Protection	Integral DC-DC Converter
Buy Now pdf	2SC0115T2A0-12	Power Integrations	\$33.65	1200	1400	15	Yes	Yes
Buy Now pdf	2SC0435T2F1-17	Power Integrations	\$93.56	1700		35	Yes	Yes
Buy Now pdf	2SC0435T2G1-17	Power Integrations	\$93.56	1700		35	Yes	Yes
Buy Now pdf	2SC0435T2H0-17	Power Integrations	\$101.70	1700		35	Yes	Yes
Buy Now pdf	2SC0535T2A1-33	Power Integrations	\$195.27	3300		35		
Buy Now pdf	2SC0650P2A0-17	Power Integrations	\$171.53	1700		50	Yes	Yes
Buy Now pdf	2SC0650P2C0-17	Power Integrations	\$175.64	1700		50	Yes	Yes
Buy Now pdf	CGD15FB45P1	Wolfspeed, A Cree Company	\$600.00	1200		2	Yes	
Buy Now pdf	CGD15HB62LP	Wolfspeed, A Cree Company	\$260.00	1200		14		
Buy Now pdf	CGD15HB62P1	Wolfspeed, A Cree Company	\$199.00	1200		9	Yes	
Buy Now pdf	CGD15SG00D2	Wolfspeed, A Cree Company	\$50.00	12		9		
Buy Now pdf	CRD-001	Wolfspeed, A Cree Company	\$50.00	1200		9	No	Yes

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March 2019

Semiconductors - ICs

Linear ICs

Driver ICs and Modules

Gate Driver

Mfr Part Number	Supplier	Price	Usable Device Voltage (V)	Usable Device Current (A)	Output Current (A)	Short-Circuit Protection	Integral DC-DC Converter
Buy Now pdf PT62SCMD12	Wolfspeed, A Cree Company	\$110.00	1200		20		

Semiconductors - Discretes

Diodes

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Silicon Carbide Diode

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
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Buy Now pdf	APT10SCD65K	Microsemi	\$2.63	650	10	Single	TO-220
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Silicon Carbide Diode

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Silicon Carbide/Silicon Hybrid Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
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Silicon Carbide/Silicon Hybrid Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
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Buy Now pdf	APT50N60JCCU2	Microsemi	\$37.45	600	38	Boost/COOLMOS/SiC diode	SOT-227
Buy Now pdf	APT58M50JCU2	Microsemi	\$33.26	500	43	Boost/MOSFET/SiC diode	SOT-227
Buy Now pdf	APTC60AM18SCG	Microsemi	\$275.63	600	107	Phase leg/COOLMOS/series diode/SiC diode	SP6
Buy Now pdf	APTC60AM24SCTG	Microsemi	\$167.16	600	70	Phase leg/COOLMOS/series diode/SiC diode	SP4
Buy Now pdf	APTC60AM35SCTG	Microsemi	\$143.62	600	54	Phase leg/COOLMOS/series diode/SiC diode	SP4

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Semiconductors - Discretes

Silicon Carbide/Silicon Hybrid Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	APTC60AM45BC1G	Microsemi	\$69.77	600	49	Boost/Phase leg/COOLMOS/IGBT/SiC diode	SP1
Buy Now pdf	APTC60DAM18CTG	Microsemi	\$150.96	600	107	Boost/COOLMOS/SiC diode	SP4
Buy Now pdf	APTC60HM45SCTG	Microsemi	\$165.82	600	38	Full bridge/COOLMOS/series diode/SiC diode	SP4
Buy Now pdf	APTC60HM70SCTG	Microsemi	\$144.73	600	29	Full bridge/COOLMOS/series diode/SiC diode	SP4
Buy Now pdf	APTC60SKM24CT1G	Microsemi	\$74.58	600	70	Buck/COOLMOS/SiC diode	SP1
Buy Now pdf	APTC60TAM21SCTPAG	Microsemi	\$425.37	600	116	Triple phase leg/COOLMOS/SiC diode	SP6-P
Buy Now pdf	APTC80A10SCTG	Microsemi	-	800	32	Phase leg/COOLMOS/series diode/SiC diode	SP4
Buy Now pdf	APTC80A15SCTG	Microsemi	\$113.34	800	21	Phase leg/COOLMOS/series diode/SiC diode	SP4

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Silicon Carbide/Silicon Hybrid Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	APTC80AM75SCG	Microsemi	-	800	43	Phase leg/COOLMOS/series diode/SiC diode	SP6
Buy Now pdf	APTC80H29SCTG	Microsemi	-	800	11	Full bridge/COOLMOS/series diode/SiC diode	SP4
Buy Now pdf	APTC90AM60SCTG	Microsemi	-	900	44	Phase leg/COOLMOS/series diode/SiC diode	SP4
Buy Now pdf	APTC90DAM60CT1G	Microsemi	-	900	44	Boost/COOLMOS/SiC diode	SP1
Buy Now pdf	APTC90H12SCTG	Microsemi	-	900	23	Full bridge/COOLMOS/series diode/SiC diode	SP4
Buy Now pdf	APTC90SKM60CT1G	Microsemi	-	900	44	Buck/COOLMOS/SiC diode	SP1
Buy Now pdf	APTCV40H60CT1G	Microsemi	\$60.33	600	50	Full bridge/COOLMOS/IGBT/SiC diode	SP1

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Silicon Carbide/Silicon Hybrid Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	APTCV60HM45BC20T3G	Microsemi	\$94.48	600	50	Boost/COOLMOS/SiC diode+Full bridge/COOLMOS/IGBT	SP3
Buy Now pdf	APTCV60HM45RCT3G	Microsemi	\$93.43	600	50	Fast rect bridge+Full bridge/COOLMOS/IGBT/diode	SP3
Buy Now	APTGF50DA120CT1G	Microsemi	-	1200	50	Boost/IGBT/SiC diode	SP1
Buy Now pdf	APTGLQ40DDA120CT3G	Microsemi	-	1200	40	Dual boost/IGBT/SiC diode	SP3F
Buy Now pdf	APTGLQ40HR120CT3G	Microsemi	\$62.71	1200	40	Phase leg/dual CE/IGBT/SiC diode	SP3F
Buy Now pdf	APTGLQ80HR120CT3G	Microsemi	\$104.23	1200	80	Phase leg/dual CE/IGBT/SiC diode	SP3F
Buy Now pdf	APTM100A13SCG	Microsemi	-	1000	49	Phase leg/MOSFET/series diode/SiC diode	SP6
Buy Now pdf	APTM100H45SCTG	Microsemi	-	1000	14	Full bridge/MOSFET/series diode/SiC diode	SP4

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Silicon Carbide/Silicon Hybrid Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	APTM100TA35SCTPG	Microsemi	-	1000	22	Triple phase leg/MOSFET/series diode/SiC diode	SP6-P
Buy Now pdf	APTM100UM65SCAVG	Microsemi	-	1000	110	Single MOSFET/series diode/SiC diode	SP6
Buy Now pdf	APTM120DA30CT1G	Microsemi	-	1200	23	Boost/MOSFET/SiC diode	SP1
Buy Now pdf	APTM120U10SCAVG	Microsemi	-	1200	86	Single MOSFET/series diode/SiC diode	SP6
Buy Now pdf	APTM50AM24SCG	Microsemi	\$295.34	500	110	Phase leg/MOSFET/series diode/SiC diode	SP6
Buy Now pdf	APTM50AM38SCTG	Microsemi	\$176.08	500	67	Phase leg/MOSFET/series diode/SiC diode	SP4
Buy Now pdf	APTM50HM75SCTG	Microsemi	\$162.19	500	34	Full bridge/MOSFET/series diode/SiC diode	SP4
Buy Now	CMH150DY-24NFH	Powerex	-	1200	150	Hybrid Dual	94 mm x 48 mm

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Silicon Carbide/Silicon Hybrid Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now	CMH200DU-24NFH	Powerex	-	1200	200	Dual	108x62
Buy Now	CMH400DU-24NFH	Powerex	-	1200	400	Hybrid Dual	110 x 80 mm
Buy Now	10-EY07BIA030SM03-L035E18T	Vincotech	-				
Buy Now	10-F0062TA099FH02-P980D49	Vincotech	-	600	20	Dual boost/1PH rect/SCR/COOLMOS/ SiC diode	33x66
Buy Now	pdf 10-F0062TA099FS-P980D59	Vincotech	\$27.53	600	18	PFC Module	flow0 17mm
Buy Now	pdf 10-F006PPA020SB01-M685B10	Vincotech	\$32.95	600	20	Full bridge/Boost/3 phase/COOLMOS/IG BT/SiC diode	33x66
Buy Now	10-F006PPA020SB03-M685B10	Vincotech	-				
Buy Now	pdf 10-F007NIA030SM01-P965F49	Vincotech	\$26.28	650	30	NPC	flow0 17mm
Buy Now	pdf 10-F007NRA050SG-P966F09	Vincotech	\$35.87	650	50	NPC	flow0 17mm
Buy Now	pdf 10-FY06BIA080MF-M527E58	Vincotech	\$53.30	650	20	Dual boost/H bridge/COOLMOS/Si C diode	37x82

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	10-FY07BIA041MC-M528E58	Vincotech	\$111.27	650	36	Dual boost/pseudo H bridge/MOSFET/SiC diode	37x82
Buy Now	10-FY12B2A040ME-L387L08	Vincotech	\$180.25				
Buy Now pdf	10-FZ062TA099FH-P980D18	Vincotech	\$36.69	600	25	Dual boost/1PH rect/COOLMOS/SiC diode	33x66
Buy Now pdf	10-FZ062TA099FH01-P980D28	Vincotech	\$37.10	600	25	Dual boost/1PH rect/SCR/COOLMOS/SiC diode	33x66
Buy Now	10-FZ062UA040FP01-P982D28	Vincotech	-	600	40	Dual boost/1PH rect/SCR/MOSFET/IGBT/SiC diode	33x66
Buy Now	10-FZ06BIA041FS01-P898E10	Vincotech	\$45.76	600	54	Boost/H bridge/COOLMOS/IGBT/SiC diode	33x66
Buy Now	10-FZ06BIA045FH-P897E	Vincotech	\$56.76	600	35	Boost/H bridge/MOSFET/IGBT/SiC diode	33x66
Buy Now	10-FZ06BIA045FH01-P897E10	Vincotech	\$52.95	600	35	Boost/H bridge/COOLMOS/IGBT/SiC diode	33x66

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	10-FZ06BIA045FH02-P897D	Vincotech	\$57.12	600	35	Boost/H bridge open emitter/MOSFET/IGBT/SiC diode	33x66
Buy Now	10-FZ06BIA070FS-P894E	Vincotech	\$32.50	600	25	Boost/H bridge/MOSFET/IGBT/SiC diode	33x66
Buy Now pdf	10-FZ06BIA083FI-P896E	Vincotech	\$51.12	600	30	Boost/H bridge/MOSFET/SiC diode	33x66
Buy Now	10-FZ06BIA099FS-P893E	Vincotech	\$38.40	600	18	Boost/H bridge/MOSFET/IGBT/SiC diode	33x66
Buy Now	10-FZ06BIA150FI-P892E21-/3/	Vincotech	-				
Buy Now pdf	10-FZ06NBA041FS01-P915L78	Vincotech	\$47.60	600	39	Symmetric Boost	Flow 0
Buy Now pdf	10-FZ06NBA045FH-P915L	Vincotech	\$101.79	600	35	Symmetric boost/MOSFET/SiC diode	33x66
Buy Now pdf	10-FZ06NBA084FP-M306L48	Vincotech	\$62.82	600	84	Symmetric boost/MOSFET/IGBT/SiC diode	33x66

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	10-FZ06NBA110FP-M306L28	Vincotech	\$69.58	600	110	Symmetric boost/MOSFET/IGBT/SiC diode	33x66
Buy Now	10-FZ06NIA045FH-P925F	Vincotech	\$51.29	600	75	NPC/MOSFET/IGBT/SiC diode	33x66
Buy Now pdf	10-FZ06NPA045FP-P967F	Vincotech	\$47.15	600	45	NPC/MOSFET/IGBT/SiC diode	33x66
Buy Now pdf	10-FZ06NPA070FP-P969F	Vincotech	\$63.98	600	70	NPC/MOSFET/IGBT/SiC diode	33x66
Buy Now pdf	10-FZ06NRA041FS02-P965F68	Vincotech	\$46.16	600	30	NPC/COOLMOS/IGBT/SiC diode	33x66
Buy Now pdf	10-FZ06NRA045FH-P965F	Vincotech	\$55.67	600	30	NPC/MOSFET/IGBT/SiC diode	33x66
Buy Now	10-FZ06NRA069FP02-P967F78	Vincotech	-	600	60	NPC/COOLMOS parallel IGBT/IGBT/SiC diode	33x66
Buy Now pdf	10-FZ06NRA069FP02-P967F68	Vincotech	\$50.80	600	60	NPC	flow0 12mm
Buy Now pdf	10-FZ06NRA084FP02-P969F68	Vincotech	\$56.61	600	75	NPC/COOLMOS parallel IGBT/IGBT/SiC diode	33x66

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now	10-FZ06NRA099FS-P963F68	Vincotech	\$34.12	600	18	NPC/COOLMOS/IGBT/SiC diode	33x66
Buy Now	10-FZ06RIA045FH-P906D	Vincotech	\$42.74	600	30	Full bridge/H bridge/MOSFET/IGBT/SiC diode	33x66
Buy Now	10-FZ07NRA030SM01-P965F49	Vincotech	-				
Buy Now pdf	10-FZ122PA100SC02-P999F78-/3/	Vincotech	-	1200	100	Half Bridge	flow0 12mm
Buy Now	10-P0062TB070FS09-M196D59Y	Vincotech	-				
Buy Now pdf	10-PG12NAB008MR02-LC59F18T	Vincotech	-	1200	72	ANPC	flow 1
Buy Now pdf	10-PG12NAB008MR02-LC59F36T	Vincotech	\$209.84	2400	150	ANPC	flow1 12mm
Buy Now pdf	10-PG12NAB008MR04-LC59F46T	Vincotech	\$216.45	2400	150	ANPC	flow1 12mm
Buy Now pdf	10-PG12NAC008MR02-LC69F18T	Vincotech	-	1200	72	ANPC	flow 1
Buy Now pdf	10-PG12NAC008MR02-LC69F36T	Vincotech	\$209.84	2400	150	ANPC	flow1 12mm
Buy Now pdf	10-PG12NAC008MR04-LC69F46T	Vincotech	\$216.45	2400	150	ANPC	flow1 12mm

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	10-PY06NRA021FS-M410FY	Vincotech	\$91.43	600	58	NPC/MOSFET/SiC diode	37x82
Buy Now pdf	10-PY06NRA041FS-M413FY	Vincotech	\$54.49	600	29	NPC/MOSFET/SiC diode	37x82
Buy Now pdf	10-PZ06NBA041FS-P915L68Y	Vincotech	\$33.15	600	35	Symmetric boost/MOSFET/SiC diode	33x66
Buy Now pdf	10-PZ06NRA041FS02-P965F68Y	Vincotech	-	600	30	NPC/MOSFET/IGBT/SiC diode	33x66
Buy Now pdf	10-PZ07BIA030SM01-P894E68Y	Vincotech	\$30.83	650	30	Boost + H Bridge	flow0 12mm
Buy Now pdf	10-PZ123BA040MR01-M909L68Y	Vincotech	\$117.05	1200	35	Booster	flow0 12mm
Buy Now pdf	10-PZ123BA080ME-M909L18Y	Vincotech	\$102.08	1200	23	Triple boost/SiC MOSFET/SiC diode	33x66
Buy Now pdf	10-PZ126PA080ME-M909F18Y	Vincotech	\$180.81	1200	23	3 phase inverter/SiC MOSFET/SiC diode	33x66
Buy Now pdf	10-PZ12B2A040ME01-M330L63Y	Vincotech	\$134.77	1200	64	Dual boost/SiC MOSFET/SiC diode	33x66
Buy Now pdf	10-PZ12NMA027ME-M340F63Y	Vincotech	\$154.33	1200	50	NPC/MOSFET/IGBT/SiC diode	33x66

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now	10-PZ12NMA030MR-M340F18Y	Vincotech	-	1200	55	Single	33x66
Buy Now pdf	QID1210005	Powerex	-	1200	100	Split dual IGBT/SiC diode	56x110
Buy Now pdf	QID1210006	Powerex	-	1200	100	Split dual IGBT/SiC diode	56x110
Buy Now pdf	QID1210007	Powerex	-	1200	100	Split dual IGBT/SiC diode	56x110
Buy Now pdf	V23990-P621-F68-PM	Vincotech	-	900	36	Dual boost/COOLMOS/SiC diode	33x66
Buy Now	V23990-P621-L58Y-/3/-PM	Vincotech	-				
Buy Now pdf	V23990-P629-F62-PM	Vincotech	\$99.34	1200	40	Single	Module
Buy Now pdf	V23990-P629-F63-PM	Vincotech	\$135.73	1200	40	Booster	flow0 12mm
Buy Now pdf	V23990-P629-L43-PM	Vincotech	\$44.60	1200	50	Booster	flow0 12mm
Buy Now pdf	V23990-P629-L43PM	Vincotech	-	1200	50	Booster	flow0 12mm
Buy Now pdf	V23990-P629-L43Y-PM	Vincotech	-	1200	50	Booster	flow0 12mm

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Configuration	Package Type
Buy Now pdf	V23990-P629-L49-PM	Vincotech	\$30.20	1200	40	Dual boost/HS IGBT/SiC diodes	33x66
Buy Now	V23990-P629-L57-PM	Vincotech	\$51.69				
Buy Now pdf	V23990-P629-L59-PM	Vincotech	\$17.74	1200	40	Dual boost/HS IGBT/SiC diodes	33x66
Buy Now pdf	V23990-P629-L63-PM	Vincotech	\$43.93	1200	40	Dual boost/Ufast IGBT/SiC diodes	33x66
Buy Now pdf	V23990-P629-L63Y-PM	Vincotech	-	1200	40	Booster	flow0 12mm
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Buy Now pdf	V23990-P629-L83-PM	Vincotech	\$73.58	1200	35	Booster	flow0 12mm
Buy Now pdf	V23990-P629-L99-PM	Vincotech	\$78.98	1200	40	Dual boost/Ufast IGBT/SiC diodes	33x66

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Transistors

Power Transistors

GaN Power Transistor

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Package Type	Dimensions (mm)
Buy Now	GS-010-120-1-P-E01-MR	GaN Systems	\$11.73	100	120	5		7.6 mm x 4.6 mm x 0.54 mm
Buy Now pdf	GS-065-004-1-L-E01-B	GaN Systems	-	650	3.5	500	Bulk	4.9 mm x 5.9 mm x 0.75 mm
Buy Now pdf	GS-065-004-1-L-E01-MR	GaN Systems	-	650	3.5	500	Mini Reel	4.9 mm x 5.9 mm x 0.75 mm
Buy Now pdf	GS-065-008-1-L-E01-B	GaN Systems	-	650	8	225	Bulk	4.9 mm x 5.9 mm x 0.75 mm
Buy Now pdf	GS-065-008-1-L-E01-MR	GaN Systems	\$2.55	650	8	225	Mini Reel	4.9 mm x 5.9 mm x 0.75 mm
Buy Now pdf	GS-065-011-1-L-E01-B	GaN Systems	-	650	11	150	Bulk	4.9 mm x 5.9 mm x 0.75 mm
Buy Now pdf	GS-065-011-1-L-E01-MR	GaN Systems	\$3.17	650	11	150	Bulk	4.9 mm x 5.9 mm x 0.75 mm
Buy Now pdf	GS61004B-E01-B	GaN Systems	\$5.37	100	45	15	Bulk	4.6 mm x 4.4 mm x 0.51 mm
Buy Now pdf	GS61004B-E01-MR	GaN Systems	\$4.74	100	45	15	Mini Reel	4.6 mm x 4.4 mm x 0.51 mm
Buy Now pdf	GS61008P-E05-B	GaN Systems	\$8.29	100	90	7	Bulk	7.6 mm x 4.6 mm x 0.51 mm

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Transistors

Power Transistors

GaN Power Transistor

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Package Type	Dimensions (mm)
Buy Now pdf	GS61008P-E05-MR	GaN Systems	\$7.25	100	90	7	Mini Reel	7.6 mm x 4.6 mm x 0.51 mm
Buy Now pdf	GS61008T-E01-B	GaN Systems	\$7.39	100	90	7	Bulk	7.0 mm x 4.0 mm x 0.54 mm
Buy Now pdf	GS61008T-E01-MR	GaN Systems	\$6.73	100	90	7	Mini Reel	7.0 mm x 4.0 mm x 0.54 mm
Buy Now pdf	GS66502B-E01-B	GaN Systems	\$8.89	650	7.5	200	Bulk	5.0 mm x 6.6 mm x 0.51 mm
Buy Now pdf	GS66502B-E01-MR	GaN Systems	\$7.69	650	7.5	200	Mini Reel	5.0 mm x 6.6 mm x 0.51 mm
Buy Now pdf	GS66504B-E01-B	GaN Systems	\$11.53	650	15	100	Bulk	5.0 mm x 6.6 mm x 0.51 mm
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Buy Now pdf	GS66504B-E01-TR	GaN Systems	-	650	15	100	Tape and Reel	5.0 mm x 6.6 mm x 0.51 mm
Buy Now pdf	GS66506T-E01-B	GaN Systems	\$16.31	650	22.5	67	Bulk	5.5 mm x 4.5 mm x 0.54 mm
Buy Now pdf	GS66506T-E01-MR	GaN Systems	\$11.78	650	22.5	67	Mini Reel	5.5 mm x 4.5 mm x 0.54 mm

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Transistors

Power Transistors

GaN Power Transistor

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Package Type	Dimensions (mm)
Buy Now pdf	GS66508B-E01-B	GaN Systems	\$16.15	650	30	50	Bulk	7.1 mm x 8.5 mm x 0.56 mm
Buy Now pdf	GS66508B-E01-MR	GaN Systems	\$13.97	650	30	50	Mini Reel	7.1 mm x 8.5 mm x 0.56 mm
Buy Now pdf	GS66508P-E05-B	GaN Systems	\$22.76	650	30	50	Bulk	10.0 mm x 8.7 mm x 0.51 mm
Buy Now pdf	GS66508P-E05-MR	GaN Systems	\$19.50	650	30	50	Mini Reel	10.0 mm x 8.7 mm x 0.51 mm
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Buy Now pdf	GS66508T-E02-MR	GaN Systems	\$12.98	650	30	50	Mini Reel	7.0 mm x 4.5 mm x 0.54 mm
Buy Now pdf	GS66516B-E01-B	GaN Systems	\$42.50	650	60	25	Bulk	11.0 mm x 9.0 mm x 0.54 mm
Buy Now pdf	GS66516B-E01-MR	GaN Systems	\$34.09	650	60	25	Mini Reel	11.0 mm x 9.0 mm x 0.54 mm
Buy Now pdf	GS66516T-E02-B	GaN Systems	\$39.43	650	60	25	Bulk	9.0 mm x 7.6 mm x 0.54 mm
Buy Now pdf	GS66516T-E02-MR	GaN Systems	\$33.82	650	60	25	Mini Reel	9.0 mm x 7.6 mm x 0.54 mm

Semiconductors - Discretes

Transistors

Power Transistors

GaN Power Transistor

Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Package Type	Dimensions (mm)
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Power IGBT Transistor

Mfr Part Number	Supplier	Price	Configuration	Voltage (V)	Current (A)	Package Type
Buy Now pdf 10-0B06PPA006RC-L023A09	Vincotech	\$12.17	Full bridge+PFC+3 phase invert/IGBT/SiC diodes	600	6	35x37
Buy Now pdf 10-0B06PPA010RC01-L025A19	Vincotech	\$16.79	Full bridge+PFC+3 phase invert/IGBT/SiC diodes	600	10	35x37
Buy Now pdf APT40GR120B2SCD10	Microsemi	\$12.18	Single Ufast NPT IGBT/SiC diode	1200	40	TO-247

Power IPM Transistor

Mfr Part Number	Supplier	Price	Configuration	Voltage (V)	Current (A)	Package Type
Buy Now PSF15S92F6-A	Mitsubishi Electric	-		600	15	

Semiconductors - Discretes

Transistors

Power Transistors

Power MOSFET Transistor

Mfr Part Number	Supplier	Price	Voltage (V)	On-State Resistance (mΩ)	Current (A)	Package Type
Buy Now pdf 10-FZ063BA040MF-M575L08	Vincotech	\$30.93	600	41	40	flow0 12mm

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Transistors

Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	10-PC094PB065ME01-L637F06Y	Vincotech	-	900	33	65	H-bridge/Split Output/SiC MOSFET	flow0 12mm
Buy Now pdf	10-PY096PA035ME-L224F18Y	Vincotech	\$175.96	900	70	35	3xHalf Bridge	flow1 12mm
Buy Now pdf	APT100MC120JCU2	Microsemi	\$295.30	1200	100	12.5	Boost/SiC MOSFET/SiC diode	SOT-227
Buy Now	APT25SM120S	Microsemi	-	1200	25	140	Single SiC MOSFET	D3PAK
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Buy Now pdf	APT40SM120J	Microsemi	\$30.87	1200	32	80	Single SiC MOSFET	SOT-227
Buy Now pdf	APT50MC120JCU2	Microsemi	-	1200	51	25	Boost/SiC MOSFET/SiC diode	SOT-227
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Semiconductors - Discretes

Transistors

Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	APTMC120AM08CD3AG	Microsemi	-	1200	185	8	Phase leg/SiC Mosfet/SiC diode	D3
Buy Now pdf	APTMC120AM09CT3AG	Microsemi	\$1,119.20	1200	200	9	Phase leg/SiC Mosfet/SiC diode	SP3F
Buy Now pdf	APTMC120AM12CT3AG	Microsemi	\$843.43	1200	150	12	Phase leg/SiC Mosfet/SiC diode	SP3F
Buy Now pdf	APTMC120AM16CD3AG	Microsemi	-	1200	102	16	Phase leg/SiC Mosfet/SiC diode	D3
Buy Now pdf	APTMC120AM20CT1AG	Microsemi	\$566.95	1200	100	17	Phase leg/SiC Mosfet/SiC diode	SP1
Buy Now pdf	APTMC120AM25CT3AG	Microsemi	-	1200	80	25	Phase leg/SiC Mosfet/SiC diode	SP3F
Buy Now pdf	APTMC120AM55CT1AG	Microsemi	-	1200	55	40	Phase leg/SiC Mosfet/SiC diode	SP1
Buy Now pdf	APTMC120HM17CT3AG	Microsemi	\$1,119.20	1200	147	17	Full Bridge	SP3F
Buy Now pdf	APTMC120HM17CT3AG	Microsemi	\$1,119.20	1200	147	17	Full Bridge	SP3F
Buy Now pdf	APTMC120HR11CT3AG	Microsemi	-	1200	20	80	Phase leg/SiC Mosfet/SiC diode	SP3F

Semiconductors - Discretes

Transistors

Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	APTMC120HRM40CT3AG	Microsemi	-	1200	50	25	Phase leg/SiC Mosfet/SiC diode	SP3F
Buy Now pdf	APTMC120TAM12CTPAG	Microsemi	\$2,469.82	1200	150	12	Triple Phase leg/SiC MOSFET/SiC diode	SP6-P
Buy Now pdf	APTMC120TAM17CTPAG	Microsemi	\$1,767.18	1200	100	17	Triple Phase leg/SiC MOSFET/SiC diode	SP6-P
Buy Now pdf	APTMC120TAM33CTPAG	Microsemi	-	1200	60	33	Triple Phase leg/SiC MOSFET/SiC diode	SP6-P
Buy Now pdf	APTMC120TAM34CT3AG	Microsemi	\$846.83	1200	74	34	Triple Phase Leg	SP3F
Buy Now pdf	APTMC170AM30CT1AG	Microsemi	\$1,267.70	1700	80	30	Phase leg/SiC Mosfet/SiC diode	SP1
Buy Now pdf	APTMC170AM60CT1AG	Microsemi	\$646.14	1700	40	60	Phase leg/SiC Mosfet/SiC diode	SP1
Buy Now pdf	APTMC60TL11CT3AG	Microsemi	-	600	20	80	Three level/SiC MOSFET/SiC diode	SP3F
Buy Now pdf	APTMC60TLM14CAG	Microsemi	\$2,146.44	600	160	13	Three level/SiC MOSFET/SiC diode	SP6
Buy Now pdf	APTMC60TLM55CT3AG	Microsemi	-	600	40	40	Triple Phase leg/SiC MOSFET/SiC diode	SP3F

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Transistors

Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now	APTSM120AM08CT6AG	Microsemi	-	1200	293	8	Phase leg/SiC Mosfet/SiC diode	SP6
Buy Now	APTSM120AM14CD3AG	Microsemi	-	1200	180	14	Phase Leg	
Buy Now	APTSM120AM25CT3AG	Microsemi	-	1200	148	25	Phase leg/SiC Mosfet/SiC diode	SP3F
Buy Now	APTSM120AM55CT1AG	Microsemi	-	1200	74	50	Phase Leg	SP1
Buy Now	APTSM120TA10CT3AG	Microsemi	-	1200	30	100	3 Phase Bridge	SP3F
Buy Now	APTSM120TAM33CTPAG	Microsemi	-	1200	89	33	Triple Phase leg/SiC MOSFET/SiC diode	SP6-P
Buy Now	APTSM70AM05CT6AG	Microsemi	-	700	480	6	Phase Leg	SP6
Buy Now	APTSM70AM06CD3AG	Microsemi	-	700	440	7	Phase Leg	D3
Buy Now	APTSM70AM15CT3AG	Microsemi	-	700	194	15	Phase Leg	SP3F
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Buy Now	APTSM70HM30CT3AG	Microsemi	-	700	97		Full Bridge	SP3F
Buy Now	APTSM70HM37CT3AG	Microsemi	-					

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Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now	APTSM70HM60CT1G	Microsemi	-					
Buy Now	APTSM70TAM20CTPAG	Microsemi	-	700	146	20	Triple Phase Leg	SP6-P
Buy Now	APTSM70TAM60CT3AG	Microsemi	-	700	49		3 Phase Bridge	SP3F
Buy Now pdf	C2M0025120D	Wolfspeed, A Cree Company	\$59.33	1200	60	25	Single SiC MOSFET	TO-247-3
Buy Now pdf	C2M0040120D	Wolfspeed, A Cree Company	\$29.00	1200	40	40	Single SiC MOSFET	TO-247-3
Buy Now pdf	C2M0045170D	Wolfspeed, A Cree Company	\$72.67	1700	72	45	Single SiC MOSFET	TO-247-3
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Buy Now pdf	C2M0280120D	Wolfspeed, A Cree Company	\$4.61	1200	10	280	Single SiC MOSFET	TO-247-3
Buy Now pdf	C2M1000170D	Wolfspeed, A Cree Company	\$4.47	1700	4.9	1000	Single SiC MOSFET	TO-247-3

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Transistors

Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
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Buy Now pdf	C2M1000170J-TR	Wolfspeed, A Cree Company	\$4.19	1700	5.3	1000	Single SiC MOSFET	D2PAK
Buy Now pdf	C3M0030090K	Wolfspeed, A Cree Company	\$23.47	900	63	30	Single SiC MOSFET	TO-247-4
Buy Now pdf	C3M0065090D	Wolfspeed, A Cree Company	\$8.48	900	36	65	Single SiC MOSFET	TO-247-3
Buy Now pdf	C3M0065090J	Wolfspeed, A Cree Company	\$8.76	900	35	65	Single SiC MOSFET	TO-263-7
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Buy Now pdf	C3M0065100J	Wolfspeed, A Cree Company	\$10.33	1000	35	65	Single SiC MOSFET	TO-263-7
Buy Now pdf	C3M0065100J-TR	Wolfspeed, A Cree Company	-	1000	35	65	Single SiC MOSFET	TO-263-7
Buy Now pdf	C3M0065100K	Wolfspeed, A Cree Company	\$10.33	1000	35	65	Single SiC MOSFET	TO-247-4
Buy Now pdf	C3M0075120D	Wolfspeed, A Cree Company	\$11.67	1200	30	75	Single SiC MOSFET	TO-247-3
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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	C3M0075120K	Wolfspeed, A Cree Company	\$12.00	1200	30	75	Single SiC MOSFET	TO-247-4
Buy Now pdf	C3M0120090D	Wolfspeed, A Cree Company	\$5.47	900	23	120	Single SiC MOSFET	TO-247-3
Buy Now pdf	C3M0120090J	Wolfspeed, A Cree Company	\$5.63	900	22	120	Single SiC MOSFET	TO-263-7
Buy Now pdf	C3M0120090J-TR	Wolfspeed, A Cree Company	-	900	22	120	Single SiC MOSFET	TO-263-7
Buy Now pdf	C3M0120100J	Wolfspeed, A Cree Company	\$6.60	1000	22	120	Single SiC MOSFET	TO-263-7
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Buy Now pdf	C3M0280090J	Wolfspeed, A Cree Company	\$3.11	900	11	280	Single SiC MOSFET	TO-263-7
Buy Now pdf	C3M0280090J-TR	Wolfspeed, A Cree Company	\$2.74	900	11	280	Single SiC MOSFET	TO-263-7
Buy Now pdf	CAS120M12BM2	Wolfspeed, A Cree Company	\$330.00	1200	193	13	Half-bridge/SiC MOSFET/SiC diode	62x106
Buy Now pdf	CAS300M12BM2	Wolfspeed, A Cree Company	\$561.00	1200	300	4.2	Half-bridge/SiC MOSFET/SiC diode	62x106
Buy Now pdf	CAS300M17BM2	Wolfspeed, A Cree Company	\$858.00	1700	300	8	Half-bridge/SiC MOSFET/SiC diode	62x106

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	CAS325M12HM2	Wolfspeed, A Cree Company	\$1,306.00	1200	325	3.6	Half Bridge	65 x 110 mm
Buy Now pdf	CCS020M12CM2	Wolfspeed, A Cree Company	\$198.00	1200	20	80	Three phase Bridge/SiC MOSFETs/SiC Diode	47x108
Buy Now pdf	CCS050M12CM2	Wolfspeed, A Cree Company	\$455.00	1200	50	34	3 phase Bridge/SiC MOSFET/SiC Diode	47x108
Buy Now pdf	CPM2-1200-0025B:EQ	Wolfspeed, A Cree Company	-	1200	98	25		Die
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Buy Now pdf	E3M0065090D	Wolfspeed, A Cree Company	\$9.79	900	35	65	Single SiC MOSFET	TO-247-3
Buy Now pdf	E3M0120090D	Wolfspeed, A Cree Company	\$6.29	900	23	120	Single SiC MOSFET	TO-247-3
Buy Now pdf	E3M0280090D	Wolfspeed, A Cree Company	\$3.39	900	11.5	280	Single SiC MOSFET	TO-247-3
Buy Now pdf	10-F107BIB020FK-M285L	Vincotech	-	600	80	19	Booster Symmetric	flow1 17mm
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Buy Now pdf	30-FT123BA040MR-L878L08	Vincotech	\$159.51	1200	35	40	Booster	flow2 13mm

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	10-FY09S2A065ME-L869L08	Vincotech	\$122.90	900	50	65	Booster Symmetric	flow1 12mm
Buy Now pdf	10-FY12B2A040MR-L387L68	Vincotech	\$96.33	1200	30	40	Booster	flow1 12mm
Buy Now pdf	10-FY12B2A040MR02-L387L63	Vincotech	\$109.04	1200	35	40	Booster	flow1 12mm
Buy Now	10-FZ062TA099-P980	Vincotech	-	600	35	111	Single	Module
Buy Now	10-FZ062TA099FH01-P980D18	Vincotech	-	600	35		Single	Module
Buy Now	10-FZ062TA099FH02-P980D18	Vincotech	-	600	35		Single	Module
Buy Now	10-FZ062TA099FH03-P980D18	Vincotech	-	600	35		Single	Module
Buy Now	10-FZ062UA040FP02-P982D18	Vincotech	-	600	35		Single	Module
Buy Now	10-FZ062UA040FP03-P982D18	Vincotech	-	600	35		Single	Module
Buy Now	10-FZ09NBA065ME	Vincotech	-					
Buy Now	10-FZ12NBA040MR	Vincotech	-					
Buy Now	MSC010SDA170B	Microsemi	\$6.97	1700	10			TO-247

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now	MSC015SMA070B	Microsemi	\$30.46	700		15		TO-247
Buy Now	MSC015SMA070S	Microsemi	\$31.73	700		15		D3PAK
Buy Now pdf	MSC025SMA120B	Microsemi	\$36.37	1200	84	25	Single SiC MOSFET	TO-247
Buy Now pdf	MSC025SMA120J	Microsemi	\$54.16	1200	71	25	Single	SOT-227
Buy Now	MSC025SMA120S	Microsemi	\$37.97	1200		25		D3PAK
Buy Now	MSC035SMA070B	Microsemi	\$13.33	700		35		TO-247
Buy Now	MSC035SMA070S	Microsemi	\$13.65	700	73	35		D3PAK
Buy Now pdf	MSC040SMA120B	Microsemi	\$20.40	1200	62	40	Single SiC MOSFET	TO-247
Buy Now pdf	MSC040SMA120J	Microsemi	\$36.32	1200	48	40	Single SiC MOSFET	SOT-227
Buy Now	MSC040SMA120S	Microsemi	\$21.10	1200		40		D3PAK
Buy Now	MSC045SMA170S	Microsemi	-	1700		45		D3PAK
Buy Now	MSC060SMA070B	Microsemi	\$9.11	700		60		TO-247

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	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now	MSC060SMA070S	Microsemi	\$9.19	700		60		D3PAK
Buy Now pdf	MSC080SMA120B	Microsemi	\$11.77	1200	30	80	Single SiC MOSFET	TO-247
Buy Now	MSC080SMA120J	Microsemi	\$26.29	1200		80		SOT-227
Buy Now	MSC080SMA120S	Microsemi	\$12.37	1200		80		D3PAK
Buy Now	MSC090SMA070B	Microsemi	\$7.21	700		90		TO-247
Buy Now	MSC090SMA070S	Microsemi	\$7.18	700		90		D3PAK
Buy Now	MSC140SMA120B	Microsemi	\$8.24	1200		140		TO-247
Buy Now	MSC140SMA120S	Microsemi	\$8.27	1200		140		D3PAK
Buy Now pdf	MSC280SMA120B	Microsemi	\$5.95	1200	9.4	280	Single SiC MOSFET	TO-247
Buy Now	MSC280SMA120S	Microsemi	\$5.86	1200		280		D3PAK
Buy Now	MSC750SMA170B	Microsemi	-	1700		750		TO-247
Buy Now pdf	MSCMC120AM02CT6LIAG	Microsemi	\$3,747.57	1200	586	2.1	Phase Leg	SP6LI

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Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	MSCMC120AM03CT6LIAG	Microsemi	\$3,159.60	1200	475	2.5	Phase Leg	SP6LI
Buy Now pdf	MSCMC120AM04CT6LIAG	Microsemi	\$2,121.19	1200	307	4.2	Phase Leg	SP6LI
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Buy Now pdf	10-PC094PB017ME02-L620F36Y	Vincotech	\$179.45	900	140	17	H-Bridge	flow0 12mm
Buy Now pdf	10-PC094PB035ME02-L629F36Y	Vincotech	\$126.16	900	38	35	Dual Half-Bridge	flow0 17mm
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Buy Now pdf	10-PY126PA020MR-L227F28Y	Vincotech	\$320.67	1200	50	20	Sixpack	flow1 12mm

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Transistors

Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	10-PY126PA040MR-L226F28Y	Vincotech	\$166.75	1200	35	40	Sixpack	flow1 12mm
Buy Now	10-PZ123BA053MM-M909L28Y	Vincotech	-					
Buy Now pdf	10-PZ123BA080MR-M909L28Y	Vincotech	\$94.73	1200	32	80	Triple boost/SiC MOSFET/SiC diode	33x66
Buy Now	10-PZ126PA053MM-M909F28Y	Vincotech	-					
Buy Now pdf	10-PZ126PA080MR-M909F28Y	Vincotech	\$147.76	1200	35	80	3 phase inverter/split output/SiC MOSFET/SiC diode	33x66
Buy Now pdf	10-PZ12B2A040MR01-M330L68Y	Vincotech	\$118.52	1200	70	40	Dual boost/SiC MOSFET/SiC diode	33x66
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Buy Now pdf	QJD1210011	Powerex	-	1200	100	25	Split dual/SiC MOSFET/SiC diode	56x110
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Power Transistors

Silicon Carbide Power Transistors/Modules

	Mfr Part Number	Supplier	Price	Voltage (V)	Current (A)	Rds(on) (mΩ)	Configuration	Package Type
Buy Now pdf	QJD1210SA1	Powerex	-	1200	100	18	Split dual/SiC MOSFET/SiC diode	56x110
Buy Now pdf	SK25MH120SCTP	Semikron	-	1200	26	80	Single-phase Inverter	Semitop 2
Buy Now pdf	SKM350MB120SCH17	Semikron	-	1200	523	5.6	Half Bridge	Semitrans 3
Buy Now pdf	SKM500MB120SC	Semikron	-	1200	541	3.75	Half Bridge	Semitrans 3

Passive Devices

Resistors

Film Resistors

Carbon Film Resistor

Mfr Part Number	Supplier	Price	Package Type	Resistance (Ω)	Tolerance (%)	Power Rating (W)	Maximum Voltage Rating (V)
Buy Now pdf ON4705E-R65	Ohmite	-		47	± 5	2	500

GaN SiC Focused Products

March

2019

Power Supplies

Converter Modules

DC to DC Converter Module

	Mfr Part Number	Supplier	Price	Minimum Input Voltage (V)	Maximum Input Voltage (V)	Output Voltage (VDC)	Output Power (W)	Isolation (kVDC)
Buy Now pdf	R05P22005D	RECOM Power, Inc.	\$5.96	5	5	20/-5	2	6.4
Buy Now pdf	R05P22005D/P	RECOM Power, Inc.	\$6.97	5	5	20/-5	2	6.4
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Buy Now pdf	RKZ-052005D/P	RECOM Power, Inc.	\$5.58	5	5	20/-5	2	3

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March

2019

Power Supplies

Converter Modules

DC to DC Converter Module

	Mfr Part Number	Supplier	Price	Minimum Input Voltage (V)	Maximum Input Voltage (V)	Output Voltage (VDC)	Output Power (W)	Isolation (kVDC)
Buy Now pdf	RKZ-122005D	RECOM Power, Inc.	\$5.06	12	12	20/-5	2	3
Buy Now pdf	RKZ-122005D/H	RECOM Power, Inc.	\$5.58	12	12	20/-5	2	4
Buy Now pdf	RKZ-122005D/HP	RECOM Power, Inc.	\$6.52	12	12	20/-5	2	4
Buy Now pdf	RKZ-122005D/P	RECOM Power, Inc.	\$5.58	12	12	20/-5	2	3
Buy Now pdf	RKZ-152005D	RECOM Power, Inc.	\$5.34	15	15	20/-5	2	3
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Buy Now pdf	RKZ-152005D/P	RECOM Power, Inc.	\$5.87	15	15	20/-5	2	3
Buy Now pdf	RKZ-242005D	RECOM Power, Inc.	\$5.34	24	24	20/-5	2	3
Buy Now pdf	RKZ-242005D/H	RECOM Power, Inc.	\$5.87	24	24	20/-5	2	4
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