

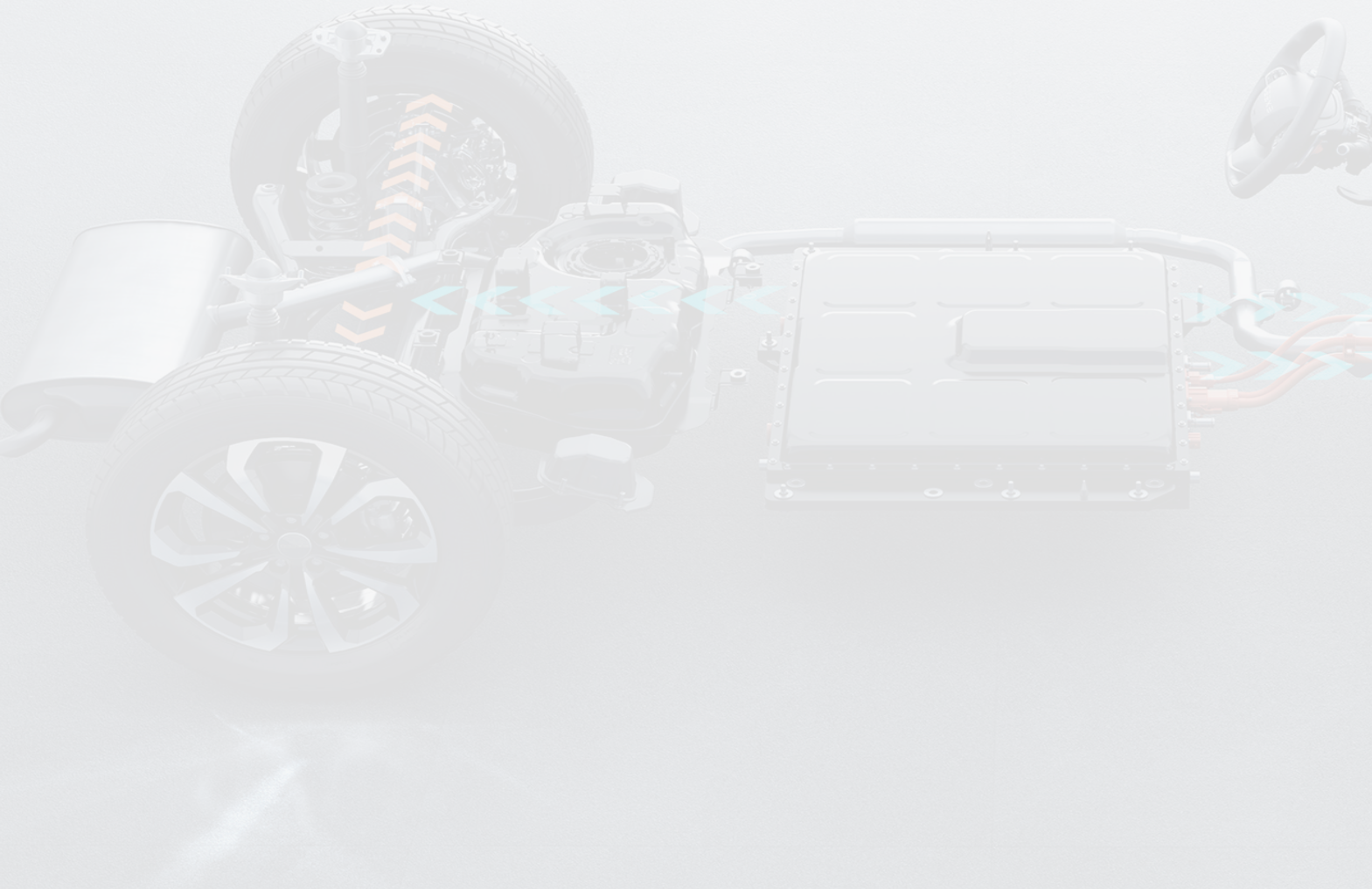
IGBTs

Insulated gate bipolar transistors are essential for high-voltage power in various demanding applications. MCC’s IGBT portfolio includes several efficient and reliable options with high current densities. Ideal for industrial, renewable energy, and automotive devices and systems, our solutions are proven to perform.

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Automotive Products

Automotive IGBT Discrete

Part Number	Package	Configuration	Voltage Class Maximum	IC @ 100° Maximum	VCE(sat)	Eon	Eoff Hard Switching
			(V)	(A)	(V)	(mJ)	(mJ)
MIW40N120FLAHE3	TO-247AB	Single	1200	40	2.3	3.8	1.7

IGBT Discrete

IGBT Modules

650V/1200V

Part Number	Package	Configuration	Voltage Class Maximum	IC @ 100° Maximum	VCE(sat)	Eon	Eoff Hard Switching
			(V)	(A)	(V)	(mJ)	(mJ)
MIP10N65AT0Y	TO-220AB	Single	650	10	1.7	0.36	0.17
MIW30N65AH1Y	TO-247AB	Single	650	30	2.4	1.14	0.73
MIW30N65FA	TO-247AB	Single	650	30	2.4	1.35	0.45
MIW30N65FLA	TO-247AB	Single	650	30	2.2	1.5	0.8
MIW40N65AT0Y	TO-247AB	Single	650	40	1.85	1.31	0.61
MIW40N65RA	TO-247AB	Single	650	40	2.4	1.6	0.88
MIW50N65RA	TO-247AB	Single	650	50	2.4	1.49	0.67
MIW50N65F	TO-247AB	Single	650	60	1.95	1.62	0.85
MIW60N65RA	TO-247AB	Single	650	60	2.5	2.98	1.51
MIW75N65F	TO-247AB	Single	650	80	1.95	2.5	1.3
MIW15N120FA	TO-247AB	Single	1200	15	2.3	2.2	1.3
MIW25N120FA	TO-247AB	Single	1200	25	2.3	2.8	2.4
MIW40N120FLA	TO-247AB	Single	1200	40	2.3	3.8	1.7
MIWP75N120	TO-247P	Single	1200	75	1.9	5.4	4.1
MIWP75N120DH1Y	TO-247Plus	Single	1200	75	2.5	7.7	2.2

650V/1200V

Part Number	Package	Configuration	Voltage Class Maximum	IC @ 100° Maximum	VCE(sat)	Eon	Eoff Hard Switching
			(V)	(A)	(V)	(mJ)	(mJ)
MIF400R065C2TL	C2	Dual	650	400	2.00	6.10	8.50
MIF75R12C1PF	C1	Dual	1200	75	3.80	13.40	5.80
MIF75R12C1TL	C1	Dual	1200	75	2.05	9.70	7.00
MIF100R12C1PF	C1	Dual	1200	100	3.80	15.80	5.90
MIF100R12C1TL	C1	Dual	1200	100	2.05	11.65	10.90
MIF100R12C1TF	C1	Dual	1200	100	2.35	8.12	7.63
MIF150R12C1TL	C1	Dual	1200	150	2.20	19.70	16.50
MIF150R12C2TL	C2	Dual	1200	150	1.85	18.00	7.90
MIF200R12C2TL	C2	Dual	1200	200	2.20	21.10	12.90
MIF200R12C2TF	C2	Dual	1200	200	2.40	33.40	12.30
MIF300R12C2TL	C2	Dual	1200	300	2.20	37.10	20.60
MIF450R12C2TL	C2	Dual	1200	450	2.35	23.20	28.50
MIF450R12E3TL	E3	Dual	1200	450	2.20	52.10	38.20
MIP15R12E1TN	E1	PIM three phase input rectifier	1200	15	2.20	1.42	0.78
MIP25R12E1TN	E1	PIM three phase input rectifier	1200	25	2.25	1.80	1.40
MIP25R12E1ATN	E1A	PIM three phase input rectifier	1200	25	2.14	2.38	2.17
MIP35R12E1ATN	E1A	PIM three phase input rectifier	1200	35	6.80	3.48	1.65
MIP40R12E1TN	E1	PIM three phase input rectifier	1200	40	2.30	4.25	2.00
MIP50R12E1ATN	E1A	PIM three phase input rectifier	1200	50	2.30	5.42	4.15
MIP50R12E2TN	E2	PIM three phase input rectifier	1200	50	2.30	5.42	4.15
MIP50R12E2ATN	E2A	PIM three phase input rectifier	1200	50	2.30	5.42	4.15
MIP75R12E2TN	E2	PIM three phase input rectifier	1200	75	2.15	5.60	3.60
MIP75R12E2ATN	E2A	PIM three phase input rectifier	1200	75	2.15	5.60	3.60
MIP100R12E2TN	E2	PIM three phase input rectifier	1200	100	2.25	9.20	5.80