

Power Modules

When the utmost levels of efficiency and reliability are required, MCC has the power modules to reduce parasitic elements while combining quality semiconductors into a single module package. Count on us to deliver advanced packaging technology and a compact footprint in diverse packages and configurations.

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Power Modules

Standard Recovery Power Modules

Part Number	Package	Number of Functions	Working Peak Reverse Voltage	Average Forward Current	Forward Peak Surge Current	Forward Voltage Per Element	At Rated Forward Current	Max.DC Reverse Current at Rated DC Blocking Voltage
			V_{RRM} (V)	I_O (A)	I_{FSM} (A)	V_F (V)	I_F (A)	I_R (mA)
MD200U08D2	D2	Single	800	200	6800	1.30	300	9.0
MD200U12D2	D2	Single	1200	200	6800	1.30	300	9.0
MD200U16D2	D2	Single	1600	200	6800	1.30	300	9.0
MD200U18D2	D2	Single	1800	200	6800	1.30	300	9.0
MD36C08D1	D1	Dual	800	36	650	1.40	100	5.0
MD36C12D1	D1	Dual	1200	36	650	1.40	100	5.0
MD36A16D1	D1	Dual	1600	36	650	1.40	100	5.0
MD36C16D1	D1	Dual	1600	36	650	1.40	100	5.0
MD36K16D1	D1	Dual	1600	36	650	1.40	100	5.0
MD36C18D1	D1	Dual	1800	36	650	1.40	100	5.0
MD60A16D1	D1	Dual	1600	60	1150	1.45	200	5.0
MD60C16D1	D1	Dual	1600	60	1150	1.45	200	5.0
MD60K16D1	D1	Dual	1600	60	1150	1.45	200	5.0
MD70A08D1	D1	Dual	800	70	1400	1.30	200	5.0
MD70A12D1	D1	Dual	1200	70	1400	1.30	200	5.0
MD70A16D1	D1	Dual	1600	70	1400	1.30	200	5.0
MD70K16D1	D1	Dual	1600	70	1400	1.30	200	5.0
MD70A18D1	D1	Dual	1800	70	1400	1.30	200	5.0
MD100A08D1	D1	Dual	800	100	2500	1.40	300	5.0
MD100A12D1	D1	Dual	1200	100	2500	1.40	300	5.0
MD100C12D1	D1	Dual	1200	100	2500	1.40	300	5.0
MD100K12D1	D1	Dual	1200	100	2500	1.40	300	5.0
MD100A16D1	D1	Dual	1600	100	2500	1.40	300	5.0
MD100C16D1	D1	Dual	1600	100	2500	1.40	300	5.0
MD100K16D1	D1	Dual	1600	100	2500	1.40	300	5.0
MD100A18D1	D1	Dual	1800	100	2500	1.40	300	5.0
MD120A08D1	D1	Dual	800	120	2800	1.35	300	6.0
MD120A12D1	D1	Dual	1200	120	2800	1.35	300	6.0
MD120A16D1	D1	Dual	1600	120	2800	1.35	300	6.0
MD120C16D1	D1	Dual	1600	120	2800	1.35	300	6.0
MD120K16D1	D1	Dual	1600	120	2800	1.35	300	6.0
MD120A18D1	D1	Dual	1800	120	2800	1.35	300	6.0
MD165A08D2	D2	Dual	800	165	6000	1.40	300	9.0
MD165A12D2	D2	Dual	1200	165	6000	1.40	300	9.0
MD165A16D2	D2	Dual	1600	165	6000	1.40	300	9.0
MD165C16D2	D2	Dual	1600	165	6000	1.40	300	9.0
MD165K16D2	D2	Dual	1600	165	6000	1.40	300	9.0
MD165A18D2	D2	Dual	1800	165	6000	1.40	300	9.0
MD200C08D2	D2	Dual	800	200	6800	1.30	300	9.0
MD200K12D2	D2	Dual	1200	200	6800	1.30	300	9.0
MD200A16D2	D2	Dual	1600	200	6800	1.30	300	9.0
MD200C16D2	D2	Dual	1600	200	6800	1.30	300	9.0
MD200K16D2	D2	Dual	1600	200	6800	1.30	300	9.0
MD240C08D2	D2	Dual	800	240	7550	1.25	300	9.0

Power Modules

Standard Recovery Power Modules

Part Number	Package	Number of Functions	Working Peak Reverse Voltage	Average Forward Current	Forward Peak Surge Current	Forward Voltage Per Element	At Rated Forward Current	Max.DC Reverse Current at Rated DC Blocking Voltage
			V _{RRM} (V)	I _O (A)	I _{FSM} (A)	V _F (V)	I _F (A)	I _R (mA)
MD240C12D2	D2	Dual	1200	240	7550	1.25	300	9.0
MD240C16D2	D2	Dual	1600	240	7550	1.25	300	9.0
MD240C18D2	D2	Dual	1800	240	7550	1.25	300	9.0
MD50H08FJ	FJ	Dual	800	50	650	1.40	100	1.0
MD50H12FJ	FJ	Dual	1200	50	650	1.40	100	1.0
MD50H16FJ	FJ	Dual	1600	50	650	1.40	100	1.0
MD100S08M2	M2	Dual	800	100	920	1.90	150	0.3
MD100S16M2	M2	Dual	1600	100	920	1.90	150	0.3
MD100S18M2	M2	Dual	1800	100	920	1.90	150	0.3
MD75S16M4	M4	Dual	1600	75	750	1.50	150	0.3
MD100S16M5	M5	Dual	1600	100	920	1.90	300	0.3
MD130S16M5	M5	Dual	1600	130	1200	1.80	300	0.3
MD160S16M5	M5	Dual	1600	160	1800	1.75	300	0.5
MD100S16M3	M3	3-Phase Bridge	1600	100	920	1.90	300	0.3
MD130S16M3	M3	3-Phase Bridge	1600	130	1200	1.80	300	0.3
MD160S16M3	M3	3-Phase Bridge	1600	160	1800	1.75	300	0.5
MD200S16M3	M3	3-Phase Bridge	1600	200	2240	1.70	300	0.5
MD250S16M3	M3	3-Phase Bridge	1600	250	2500	1.60	300	0.5
MD100S08M4	M4	3-Phase Bridge	800	100	920	1.90	300	0.3
MD100S12M4	M4	3-Phase Bridge	1200	100	920	1.90	300	0.3
MD100S16M4	M4	3-Phase Bridge	1600	100	920	1.90	300	0.3
MD100S18M4	M4	3-Phase Bridge	1800	100	920	1.90	300	0.3
MD200S08M5	M5	3-Phase Bridge	800	200	2240	1.70	300	0.5
MD200S12M5	M5	3-Phase Bridge	1200	200	2240	1.70	300	0.5
MD200S16M5	M5	3-Phase Bridge	1600	200	2240	1.70	300	0.5
MD200S18M5	M5	3-Phase Bridge	1800	200	2240	1.70	300	0.5
MD250S08M5	M5	3-Phase Bridge	800	250	2500	1.60	300	0.5
MD250S12M5	M5	3-Phase Bridge	1200	250	2500	1.60	300	0.5
MD250S16M5	M5	3-Phase Bridge	1600	250	2500	1.60	300	0.5
MD250S18M5	M5	3-Phase Bridge	1800	250	2500	1.60	300	0.5
MD200S16NM3	NM3	3-Phase Bridge	1600	200	2240	1.70	300	0.5

Power Modules

Thyristor Modules

Part Number	Package	Number of Functions	Working Peak Reverse Voltage	Output Current(D.C.)	Gate Trigger Voltage	Gate Trigger Current	Peak On-State Voltage
			V _{RRM} (V)	I _T (A)	V _{GT} (V)	I _{GT} (mA)	V _{TM} (V)
MT25C16T1	T1	Dual	1600	25	2.5	150	1.8
MT25CB16T1	T1	Dual	1600	25	2.5	150	1.8
MT40C16T1	T1	Dual	1600	40	2.5	150	1.95
MT40CB16T1	T1	Dual	1600	40	2.5	150	1.95
MT60C16T1	T1	Dual	1600	60	3	150	1.65
MT60CB16T1	T1	Dual	1600	60	3	150	1.65
MT90CB16T1	T1	Dual	1600	90	3	150	1.65
MT110C16T1	T1	Dual	1600	110	3	150	1.65
MT110CB16T1	T1	Dual	1600	110	3	150	1.65
MT110C18T1	T1	Dual	1800	110	3	150	1.65
MT130C16T2	T2	Dual	1600	130	3	150	1.8
MT160C08T2	T2	Dual	800	160	3	150	1.7
MT160C12T2	T2	Dual	1200	160	3	150	1.7
MT160C16T2	T2	Dual	1600	160	3	150	1.7
MT160C18T2	T2	Dual	1800	160	3	150	1.7
MT200C08T2	T2	Dual	800	200	3	200	1.7
MT200CB08T2	T2	Dual	800	200	3	200	1.7
MT200C12T2	T2	Dual	1200	200	3	200	1.7
MT200CB12T2	T2	Dual	1200	200	3	200	1.7
MT200C16T2	T2	Dual	1600	200	3	200	1.7
MT200CB16T2	T2	Dual	1600	200	3	200	1.7
MT200C18T2	T2	Dual	1800	200	3	200	1.7
MT200CB18T2	T2	Dual	1800	200	3	200	1.7
MT100DT08L1	L1	3-Phase Bridge	800	100	3	150	1.25
MT100DT12L1	L1	3-Phase Bridge	1200	100	3	150	1.25
MT100DT16L1	L1	3-Phase Bridge	1600	100	3	150	1.25
MT100DT18L1	L1	3-Phase Bridge	1800	100	3	150	1.25

Fast Recovery Diode Modules

Part Number	Package	Number of Functions	Working Peak Reverse Voltage	Average Forward Current	Forward Peak Surge Current	Forward Voltage Per Element	At Rated Forward Current	Reverse Recovery Time
			V_{RRM} (V)	I_O (A)	I_{FSM} (A)	V_F (V)	I_F (A)	T_{RR} (ns)
MF100U12F2	F2	Single	1200	100	1100	1.58	100	55
MF300U06F2	F2	Single	600	300	3000	1.65	300	55
MF300U06F6	F6	Single	600	300	3500	1.15	300	145
MF500U12F2	F2	Single	1200	500	5000	2	500	200
MF120DU06FJ	FJ	Dual	600	120	550	1.9	60	50
MF150C06F2	F2	Dual	600	150	1400	1.6	150	130
MF200K04F3	F3	Dual	400	200	1500	1.35	100	95
MF200K04F4N	F4N	Dual	400	200	1500	100	1.35	95
MF200K06F2	F2	Dual	600	200	2000	1.6	200	140
MF200K06F3	F3	Dual	600	200	2100	1.15	100	105
MF200K06F4N	F4N	Dual	600	200	2100	100	1.15	105
MF200DU06FJ	FJ	Dual	600	200	1300	1.3	100	105
MF200C12F2	F2	Dual	1200	200	1800	2.5	200	110
MF200DU12FJ	FJ	Dual	1200	200	1450	1.6	100	135
MF300K04F3	F3	Dual	400	300	2700	1.05	150	90
MF300K06F3	F3	Dual	600	300	3500	1.4	150	130
MF300C12F2	F2	Dual	1200	300	2700	3	300	135
MF400K04F3	F3	Dual	400	400	4000	1.35	200	135
MF400K06F3	F3	Dual	600	400	3500	1.25	200	130