



SiC Power Devices

MacMic's SiC Power Devices Target Efficient and High Reliability Applications, including EV Core Systems, DC/DC Conversion, Electric Vehicles, Charging Station, PV Inverter, and Industrial Power Supply.

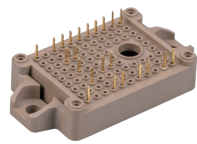


• • • SiC SBD Discretes • • •

Circuit	Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	V_F (V)	I_{FSM} (A)	T_{jmax}	Qualification	Package Outline
	MM20S120B	1200	20	1.40	180	175°C	Industrial	TO-247-2L
	MM20SH120B	1200	20	1.44	180	175°C	Industrial	TO-247-2L
	MM40S120B	1200	40	1.40	360	175°C	Industrial	TO-247-2L
	MM40SH120B	1200	40	1.41	400	175°C	Industrial	TO-247-2L

• • • SiC MOSFET Discretes • • •

Circuit	Part Number	V_{DSS} (V)	I_D (A)	$R_{ds(on)}$ (mΩ)	Q_g (nC)	T_{jmax}	Qualification	Package Outline
	MML30N3S120BK	1200	65	30	102	175°C	Industrial	TO-247-4L
	MMQ30N3S120BK	1200	65	30	102	175°C	Automotive	TO-247-4L
	MMQ13N3S120BK	1200	149	13	185	175°C	Automotive	TO-247-4L
	MML13N3S120BK	1200	149	13	185	175°C	Industrial	TO-247-4L
	MMQ30N3S120SJ	1200	75	30	102	175°C	Automotive	TO-263-7L
	MML30N3S120SJ	1200	75	30	102	175°C	Industrial	TO-263-7L



NCB



NCE



ND



NJ

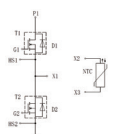
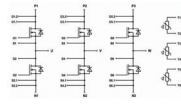
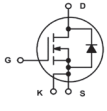
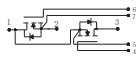


NS



NV

• • • SiC MOSFET Modules • • •

Circuit	Part Number	V _{DS} (V)	I _D (A)	R _{DS(on)} (mΩ)	R _{thJF} (K/W)	T _{Jmax}	Package Outline
 BA	MMN02V120X6BS	1200	439	2	0.118	175°C	NV
	MMN01V120X6BS	1200	540	1	0.105	175°C	NV
 X	MMN15S120BC2P6NA	1200	80	15	0.467	175°C	NS
	MMN15S120BC2P6NA-H	1200	75	15	0.66	175°C	NS
 U	MMN7CB120BA6BS	1200	100	7	0.32	175°C	NCB
	MMN7CB120BA4P6NA	1200	100	7	0.36	175°C	NCB
 B	MMN4CE120BA4P6BS	1200	200	4	0.32	175°C	NCE
	MMN13J120U6NA	1200	108	13	0.565	175°C	NJ
	MMN08D120BC4P6NA	1200	120	8	0.27	175°C	ND
	MMN07D170BC3P6BS_F	1700	135	7	0.175	175°C	ND

• • • Applications • • •



Charging station



Electric Vehicles



Solar Inverter



Servo Driver



UPS



SST



Low-altitude economy