MACMIC®

SiC Power Devices

Power for the Better

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

TO-247-2L

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	1.45	180	175°C	Industrial	TO-247-2L
MM40S120B	1200	40	1.40	360	175°C	Industrial	TO-247-2L
MM40SH120B	1200	40	1.45	360	175°C	Industrial	TO-247-2L

SiC MOSFET Discretes

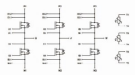
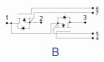
TO-247-4L

Part Number	V_{DSS} (V)	I_D (A)	$R_{ds(on)}$ (mΩ)	Q_q (nC)	T_{jmax}	Qualification	Package Outline
MM11NAS075KZ	750	138	11	217	175°C	Industrial	TO-247-4L
MM25NAS075KZ	750	74	25	112	175°C	Industrial	TO-247-4L
MM13N120BK	1200	130	13	184	175°C	Industrial	TO-247-4L
MM15NAS120KZ	1200	126	18	222	175°C	Industrial	TO-247-4L
MM20NAS120KZ	1200	88	20	175	175°C	Industrial	TO-247-4L
MM30NAS120KZ	1200	64	30	117	175°C	Industrial	TO-247-4L
MM39NAS120KZ	1200	50	39	93	175°C	Industrial	TO-247-4L
MM40N120BK	1200	50	40	120	175°C	Industrial	TO-247-4L

SiC SBD Modules

	Circuit	Part Number	V_{RRM} (V)	$I_{F(AV)}$ (A)	V_F (V)	R_{thJC} (K/W)	Qualification	Package Outline
		MMS2X60J120D	1200	2x60	1.40	0.11	Industrial	SJ
		MMS2X100J065D	1200	2x100	1.36	0.24	Industrial	SJ

SiC MOSFET Modules

	Circuit	Part Number	V_{DSS} (V)	I_D (A)	$R_{ds(on)}$ (mΩ)	R_{thJF} (K/W)	Qualification	Package Outline
	 X	MMN01V120X6BS	1200	540	1.57	0.105	Automotive	NV
		MMN02V120X6BS	1200	439	2.12	0.118	Automotive	NV
	 BA	MMN7CB120BA6BS	1200	110	7.0	0.32	Industrial	NCB
	 U	MMN13J120U6TN	1200	107	13.4	0.565	Industrial	NJ
	 B	MMN14S120B6TN	1200	140	13.8	0.467	Industrial	NS

Applications

Charging station

Electric Vehicles

Solar Inverter

PV Inverter

UPS