

IGBT Modules, N • G series

7 in one-package/Built-in brake N series

Device type	Inverter(IGBT)				Brake(IGBT+FWD)			Converter(Diode)				Package	Net mass Grams
	V _{CES}	I _C Cont.	P _C	V _{CE(sat)} Max.	V _{CES}	I _C Cont.	V _{RRM}	V _{RRM}	I _O	V _{FM} Cont.	I _{FSM} Max.		
	Volts	Amps.	Watts	Volts	Volts	Amps.	Volts	Volts	Amps.	Watts	Volts		
7MBI75N-060	600	75	320	2.8	600	50	600	-	-	-	-	P607	450
7MBI100N-060	600	100	400	2.8	600	50	600	-	-	-	-	P607	450
7MBI40N-120	1200	40	320	3.3	1200	15	1200	-	-	-	-	P607	450
7MBI50N-120	1200	50	400	3.3	1200	25	1200	-	-	-	-	P607	450

PIM/Built-in converter and brake N series

Device type	Inverter(IGBT)				Brake(IGBT+FWD)			Converter(Diode)				Package	Net mass Grams
	V _{CES}	I _C Cont.	P _C	V _{CE(sat)} Max.	V _{CES}	I _C Cont.	V _{RRM}	V _{RRM}	I _O	V _{FM} Cont.	I _{FSM} Max.		
	Volts	Amps.	Watts	Volts	Volts	Amps.	Volts	Volts	Amps.	Watts	Volts		
7MBR30NF060	600	30	120	2.8	600	30	600	800	50	1.55	350	M707	260
7MBR50NF060	600	50	200	2.8	600	50	600	800	50	1.55	350	M707	260
7MBR10NF120	1200	10	60	3.3	1200	5	1200	1600	25	1.4	320	M707	260
7MBR15NF120	1200	15	120	3.3	1200	10	1200	1600	25	1.4	320	M707	260
7MBR25NF120	1200	25	200	3.3	1200	15	1200	1600	25	1.4	320	M707	260

PIM/Built-in converter and brake N • G series

Device type	Inverter(IGBT)				Brake(IGBT+FWD)			Converter(Diode)				Package	Net mass Grams
	V _{CES}	I _C Cont.	P _C	V _{CE(sat)} Max.	V _{CES}	I _C Cont.	V _{RRM}	V _{RRM}	I _O	V _{FM} Cont.	I _{FSM} Max.		
	Volts	Amps.	Watts	Volts	Volts	Amps.	Volts	Volts	Amps.	Watts	Volts		
7MBR30NE060	600	30	120	2.8	600	30	600	800	50	1.55	350	M708	260
7MBR50NE060	600	50	200	2.8	600	50	600	800	50	1.55	350	M708	260
7MBR75GE060	600	75	300	2.8	600	50	600	800	50	1.55	350	M708	260
7MBR10NE120	1200	10	60	3.3	1200	5	1200	1600	25	1.4	320	M708	260
7MBR15NE120	1200	15	120	3.3	1200	10	1200	1600	25	1.4	320	M708	260
7MBR25NE120	1200	25	200	3.3	1200	15	1200	1600	25	1.4	320	M708	260

IGBT modules for DC chopper

Device type	V _{CES}	V _{GES}	I _C Cont.	P _C	V _{CE(sat)} (V _{GE} =15V)		Switching time Max.			Package	Net mass Grams
	Volts	Volts	Amps.	Watts	Max. Volts	I _C Amps.	ton μsec.	toff μsec.	tf μsec.		
1MBI150NH-060	600	±20	150	300	2.8	150	1.2	1.0	0.35	M232	180
1MBI150NK-060	600	±20	150	300	2.8	150	1.2	1.0	0.35	M232	180
1MBI200NH-060	600	±20	200	780	2.8	200	1.2	1.0	0.35	M233	240
1MBI200NK-060	600	±20	200	780	2.8	200	1.2	1.0	0.35	M233	240

6-in one-package (Compact single in-line package)

Device type	V _{CES}	V _{GES}	I _C	P _C	V _{CE(sat)} (V _{GE} =15V)		Switching time Max.			Package	Net mass Grams
	Volts	Volts	Cont. Amps.	Watts	Max.	I _C	ton	toff	tf		
					Volts	Amps.	μsec.	μsec.	μsec.		
6MBI10GS-060	600	±20	10	45	2.8	10	1.2	1.0	0.35	M619	60
6MBI15GS-060	600	±20	15	60	2.8	15	1.2	1.0	0.35	M619	60
6MBI20GS-060	600	±20	20	70	2.8	20	1.2	1.0	0.35	M619	60