

# MDC080A ~ MDC220A

## Applications :

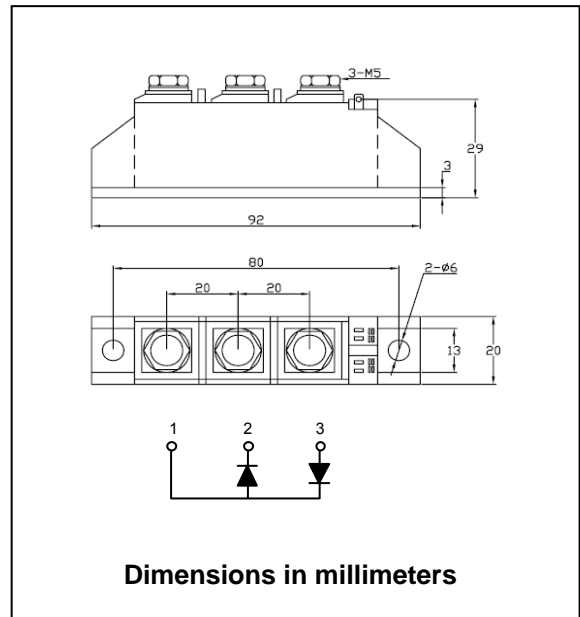
- \* Supplies for DC power equipment
- \* DC supply for PWM inverter
- \* Field supply for DC motors
- \* Battery DC power supplies

## Advantages :

- \* Space and weight savings
- \* Simple mounting
- \* Improved temperature and power cycling
- \* Reduced protection circuits

TYPE	V <sub>RRM</sub> (V)	V <sub>RSM</sub> (V)
MDC080A	800	900
MDC120A	1200	1300
MDC140A	1400	1500
MDC160A	1600	1700
MDC180A	1800	1900
MDC200A	2000	2100
MDC220A	2200	2300

# DIODE MODULES



## MAXIMUM RATINGS

SYMBOL	TEST CONDITION	MAXIMUM	UNIT
I <sub>FRMS</sub>	T <sub>VJ</sub> = T <sub>VJM</sub>	180	A
I <sub>F(AV)</sub>	T <sub>C</sub> = 105 °C ; 180° sine	120	A
I <sub>FSM</sub>	T <sub>VJ</sub> = 45 °C t = 10 ms(50 Hz), sine	2800	A
	V <sub>R</sub> = 0 t = 8.3 ms(60 Hz), sine	3300	A
	T <sub>VJ</sub> = T <sub>VJM</sub> t = 10 ms(50 Hz), sine	2500	A
	V <sub>R</sub> = 0 t = 8.3 ms(60 Hz), sine	2750	A
j <sup>2</sup> dt	T <sub>VJ</sub> = 45 °C t = 10 ms(50 Hz), sine	39200	A <sup>2</sup> s
	V <sub>R</sub> = 0 t = 8.3 ms(60 Hz), sine	45000	A <sup>2</sup> s
	T <sub>VJ</sub> = T <sub>VJM</sub> t = 10 ms(50 Hz), sine	31200	A <sup>2</sup> s
	V <sub>R</sub> = 0 t = 8.3 ms(60 Hz), sine	31300	A <sup>2</sup> s
I <sub>R</sub>	T <sub>VJ</sub> = T <sub>VJM</sub> ; V <sub>R</sub> = V <sub>RRM</sub>	15	mA
V <sub>F</sub>	I <sub>F</sub> = 300 A ; T <sub>VJ</sub> = 25 °C	1.43	V
R <sub>thJC</sub>	Per diode ; DC current	0.26	K/W
	Per module	0.13	K/W
R <sub>thJK</sub>	Per diode ; DC current	0.46	K/W
	Per module	0.23	K/W
T <sub>VJ</sub>		-40 to +150	°C
T <sub>VJM</sub>		150	°C
T <sub>STG</sub>		-40 to +125	°C