

MDC080A ~ MDC220A

DIODE MODULES

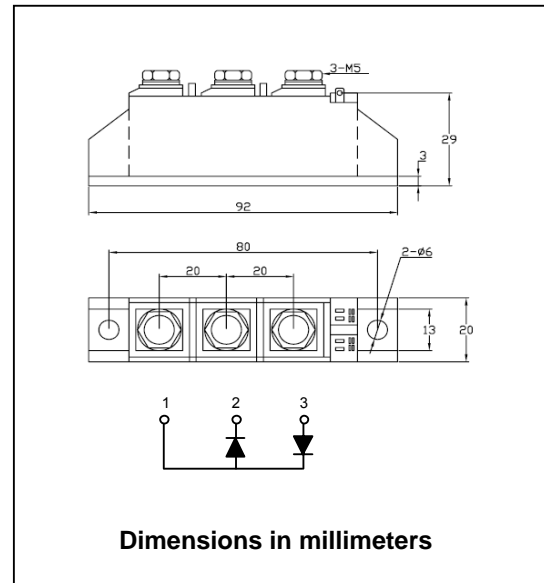
Applications :

- * 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 _{RRM} (V)	V _{RSM} (V)
MDC080A	800	900
MDC120A	1200	1300
MDC140A	1400	1500
MDC160A	1600	1700
MDC180A	1800	1900
MDC200A	2000	2100
MDC220A	2200	2300



Dimensions in millimeters

MAXIMUM RATINGS

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