MDC080A ~ MDC220A

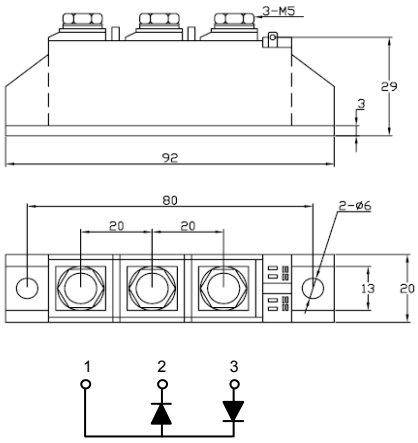
DIODE MODULES

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



Dimensions in millimeters

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

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
$\int i^2dt$	T_{VJ} = 45 °C t = 10 ms(50 Hz), sine	39200	A^2s
	V_R = 0 t = 8.3 ms(60 Hz), sine	45000	A^2s
	$T_{VJ} = T_{VJM}$ t = 10 ms(50 Hz), sine	31200	A^2s
	V_R = 0 t = 8.3 ms(60 Hz), sine	31300	A^2s
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