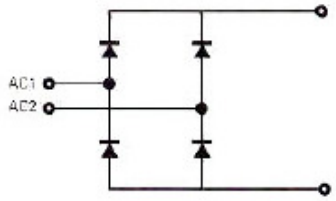
Single Phase Bridge Rectifier (50A,75A,100A)

Typical Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors



Preliminary Data Sheet

V_{RSM}	I_{DAV}(Tcase= 100 °C,)		
V_{RRM}	50A	75A	100A
400V	MDQ-50-04F	MDQ-75-04F	MDQ-100-04F
600V	MDQ-50-06F	MDQ-75-06F	MDQ-100-06F
800V	MDQ-50-08F	MDQ-75-08F	MDQ-100-08F
1200V	MDQ-50-12F	MDQ-75-12F	MDQ-100-12F
1400V	MDQ-50-14F	MDQ-75-14F	MDQ-100-14F
1600V	MDQ-50-16F	MDQ-75-16F	MDQ-100-16F
1800V	MDQ-50-18F	MDQ-75-18F	MDQ-100-18F

Electrical Specifications

Symbol	Specifications Limits			Units	Conditions
I_{DAVM}	50	75	100	A	T_C=100°C, module
I_{FSM}	550 600	750 820	1200 1300	A A	T_{VJ}=45°C t=10ms(50 HZ) sin. V_R=0 t=8.3 ms (60 HZ) sin.
	500 550	670 740	1000 1100	A A	T_{VJ}=T_{VJM} t=10 ms (50 HZ) sin. V_R=0 t=8.3 ms (60 HZ) sin.
I^2t	1520 1520	2800 2800	7200 7200	A^2s A^2s	T_{VJ}=45°C t=10 ms (50 HZ) sin. V_R=0 t=8.3 ms (60 HZ) sin.
	1250 1250	2250 2250	5000 5000	A^2s A^2s	T_{VJ}=T_{VJM} t=10 ms (50 HZ) sin. V_R=0 t=8.3 ms (60 HZ) sin.
Md	5±15% 5±15%			N.m N.m	mounting torque(M5) coupling end torque(M6)
I_R	≤0.3 ≤5			mA mA	V_R=V_{RRM} T_{VJ}=25°C, V_R=V_{RRM} T_{VJ}= T_{VJM}
V_F	≤1.80	≤1.60	≤1.25 ≤1.9	V V V	I_F=100A T_{VJ}=25°C, I_F=150A T_{VJ}=25°C, I_F=300A T_{VJ}=25°C,
V_{TO} r_T	0.8 8	0.8 5	0.8 5	V mΩ	For power-loss calculations only T_{VJ}=T_{VJM}
V_{ISOL}	2500 3000			V V	50/60HZRMS t=1min I_{ISOL} 1mA t=1s
T_{VJ} T_{VJM} T_{stg}	-40 to 150 150 -40 to 150			°C °C °C	

T_{VJM} T_{stg}	150 -40 to 150			°C °C	
R_{thJC}	1.45 0.36	1.2 0.3	1.1 0.183	K/W K/W	per diode,DC module
R_{thJK}	1.87 0.47	1.62 0.41	1.52 0.29	K/W K/W	per diode , DC module
d_s d_A a	10.00 9.40 50			mm mm m/S^2	Exterior creepage distance Creepage distance in the air Maximal acceleration
Wt	160			g	Case B (Typical)
Colour	Black				
L×W×H	80×40×32.4			mm	External dimension

Dimension

