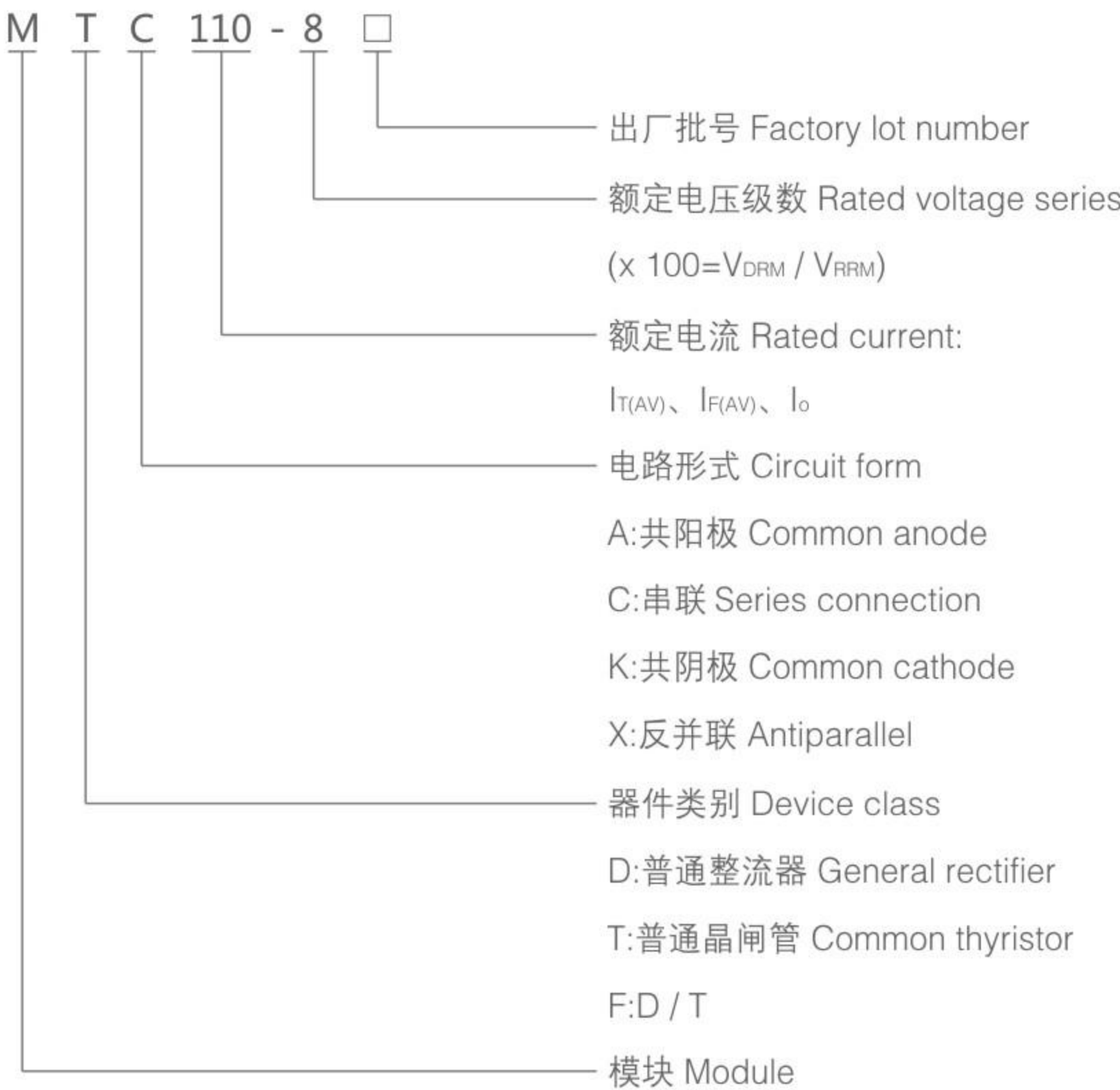




型号说明 Type description



产品特点 Product Characteristics

- 芯片与底板电气绝缘，2500V交流电压；

○ 国际标准封装；

○ 真空+充氢保护焊接技术；

○ 压接结构，优良的温度特性和功率循环能力；

○ 输入-输出端之间隔离耐压 $\geq 2500VAC$ ；

○ 200A以下模块皆为强迫风冷，300A以上模块，既可选用风冷，也可选用水冷；

○ 安装简单，使用维修方便，体积小，重量轻。

○ Chip and baseboard electrical insulation, 2500V AC voltage;

○ International standard package;

○ Vacuum + hydrogen filled protection welding technology;

○ Crimp structure, excellent temperature characteristics and power cycle capability;

○ Isolated voltage between input and output $\geq 2500VAC$;

○ Modules below 200A are forced air cooling, and modules above 300A can be air-cooled or water-cooled.

○ Simple installation, easy use and maintenance, small size, light weight.

产品应用 Matters needing attention

- 交直流电机控制；

○ 无触点开关；

○ 变频器；

○ 各种整流电源；

○ 电机软起动；

○ UPS电源；

○ 工业加热控制；

○ 静止无功补偿；

○ 电池充放电。
- 说明：

a. $V_{DSM}/V_{RSM}=V_{DRM}/V_{RRM}+200V$;

b. 除非另作说明， $L_{GT},V_{GT},I_H,V_{TM},V_{ISO}$ 均为25下的调试值，表中其它参数皆为 T_{vj} 下的测试值;

c. $I^*t=I^*_{TSM}TW/2$,式中TW:正弦半波电流底宽，在50HZ频率下，
 $I^*t(10ms)=0.005I^*_{TSM}(A^2S)$;

d. 当使用在电流为60HZ情况下， $I_{TSM}(8.3ms)=1.066(10ms)$ ，
 $I^*t(8.3ms)=0.943I^*_{TSM}(10ms)$ 。
- AC and DC motor control;

○ Industrial heating control;

○ Motor soft start;

○ Electric welding machine;

○ UPS power supply;

○ All kinds of rectifier power supply;

○ Dimming;

○ No contact switch;

○ Static reactive power supplement;

○ Frequency converter;

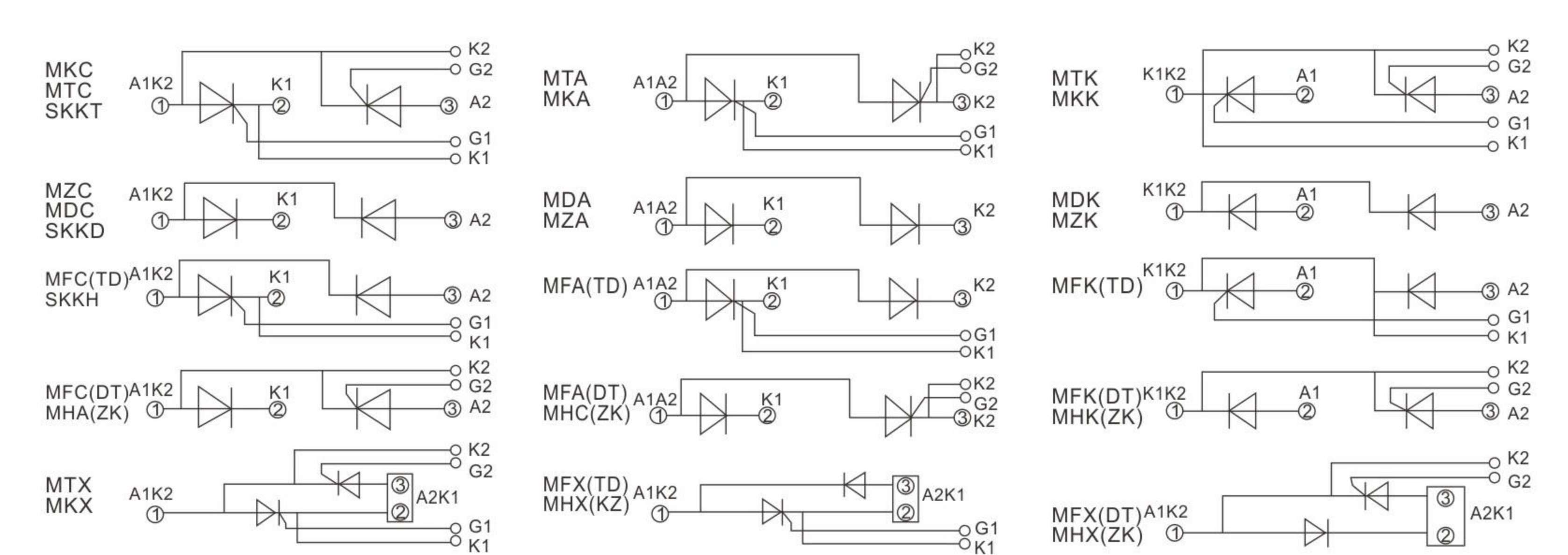
○ Battery charging and discharging.

Instructions:
a. $V_{DSM}/V_{RSM}=V_{DRM}/V_{RRM}+200V$;
b. Unless otherwise stated, $L_{GT},V_{GT},I_H,V_{TM},V_{ISO}$ are all debug values under 25, and other parameters in the table are test values under T_{vj} ;
c. $I^*t=I^*_{TSM}TW/2$, where TW: sinusoidal half-wave current base width, at 50HZ frequency, $I^*t(10ms)=0.005I^*_{TSM}(A^2S)$;
d. When the current is 60HZ, $I_{TSM}(8.3ms)=1.066(10ms)$, $I^*t(8.3ms)=0.943I^*_{TSM}(10ms)$.

主要技术参数 Main Technical Parameters

型号	通态平均电流 Average on-state current	反向断态重复峰值电压 Reverse off-state repeat peak voltage	通态峰值电压 Peak on-state voltage	通态峰值电流 Peak on-state current	正反向重复峰值电流 Forward reverse repetitive peak current	触发电流 Trigger current	触发电压 Trigger voltage	维持电流 Holding current	断态电压临界上升率 Critical rise rate of off-state voltage	通态电流临界上升率 Critical rise rate of on-state current	最高额定结温 Maximum rated junction temperature	绝缘电压 Insulation voltage	重量
	$I_{T(AV)}$	$V_{drn} V_{rrm}$	V_{tm}	I_{tm}	$I_{drm} I_{rrm}$	I_{gt}	V_{gt}	I_h	dv/dt	di/dt	T_{jm}	V_{iso}	
Type	A	V	V	A	mA	mA	V	mA	V/ μS	A/ μS	$^{\circ}C$	VAC	g
MTx70A	70	400–2600	1.9	210	10	100	2.5	100	800	100	125	2500	165
MTx90A	90	400–2600	1.9	270	15	100	2.5	100	800	100	125	2500	
MTx110A	110	400–2600	1.9	330	20	100	2.5	100	800	100	125	2500	

接线示意图 wiring diagram (mm)



外形及安装尺寸 Outline and mounting dimensions (mm)

