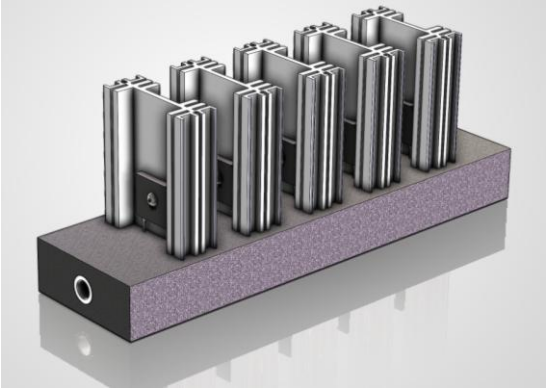
2CL10KV/20.0A-WT 高压整流硅堆

High Voltage Rectifier Assembly



■ 特点 Features:

- 低漏电流、低功率 Low leakage, low power,
- 工作结温-40℃~ +150° C Tj:-40℃~+150℃.
- 高效散热 Efficient heat dissipation and heat transfer
- 多尺寸或定制 A wide variety of sizes or customization
- 高压整流、隔离、保护 For HV rectification, isolation, protection

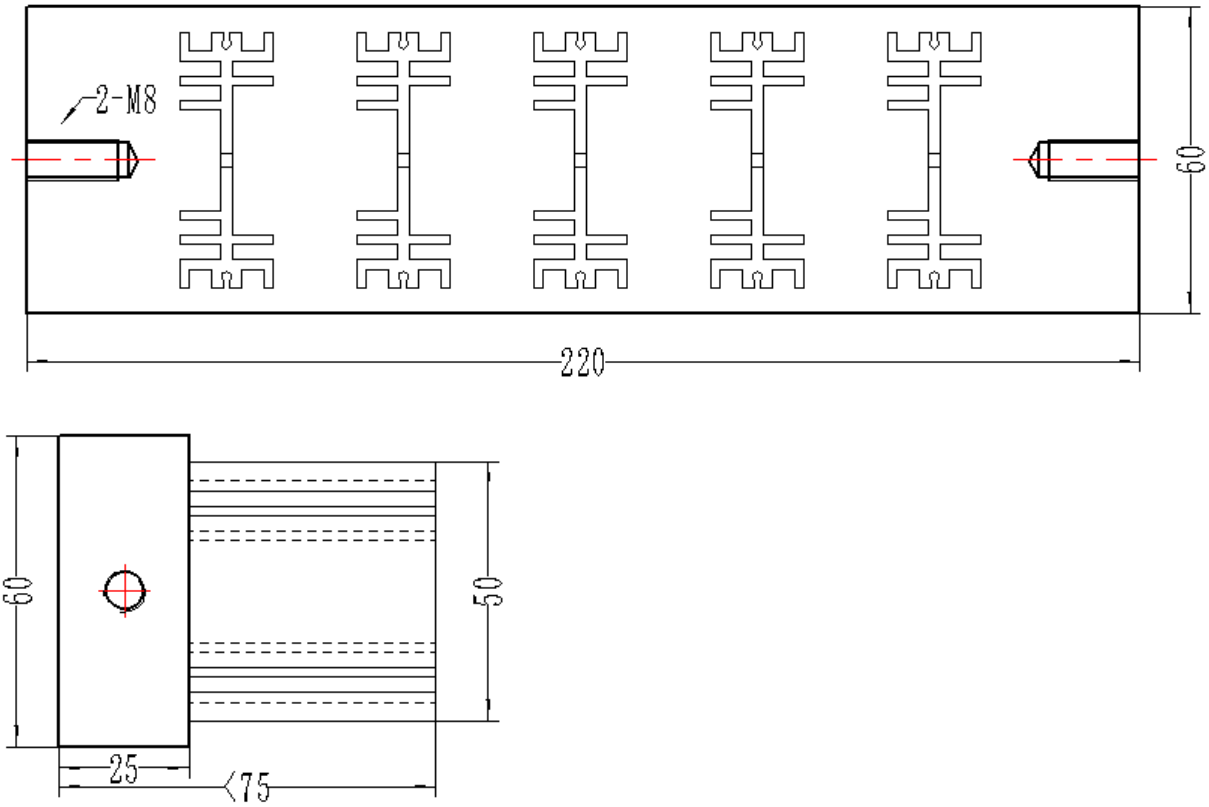
■ 电特性及极限值 Electrical characteristics and limits (Ta=25℃)

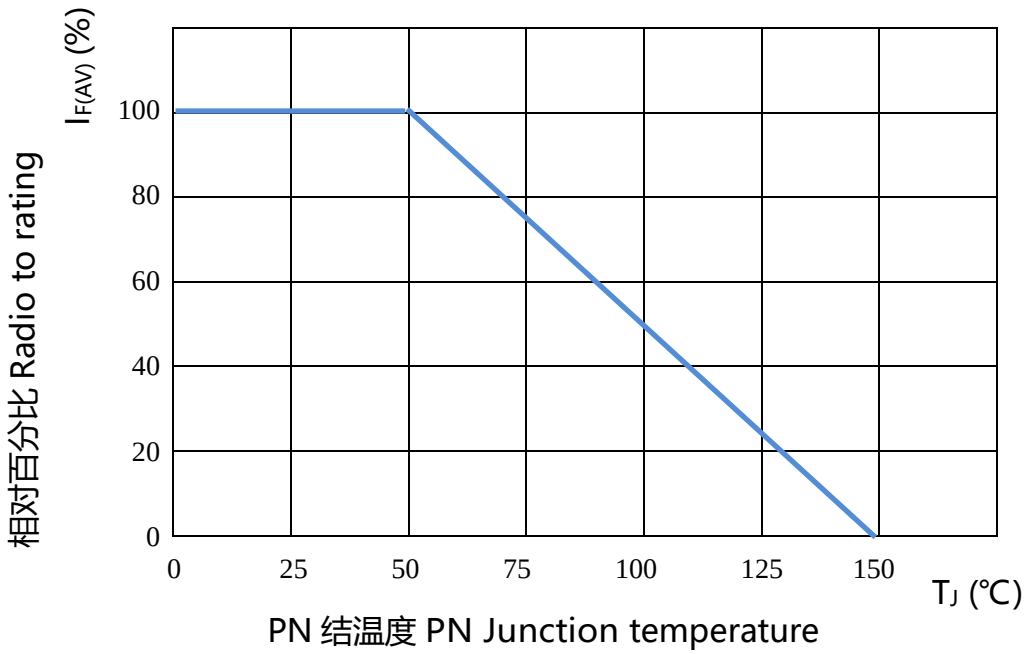
参数名称 Item	符号 Sym	条件 Conditions	数值 Value	单位 Unit
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}		10	KV
正向平均电流 Average Forward Current	$I_{F(AV)}$	50HZ half -sine wave，Resistance load @ Ta=50 ℃	20.0	A
正向(不重复)浪涌电流 (Non-Repetitive) Forward Surge Current	I_{FSM}	8.3mS @ half -sine wave，1/2cycle，	400.0	A
正向峰值电压 Forward peak Voltage	V_{FM}	I_F= 10A	14	V
常温反向直流电流 Normal Temperature Reverse Direct Current	I_{RM1}	Ta=25℃ $V_{RM}=V_{RRM}$	20.0	μA
高温反向直流电流 High Temperature Reverse Direct Current	I_{RM2}	Ta=100℃ $V_{RM}=V_{RRM}$	500	μA
有效结温 Virtual Junction Temperature	T_J		150	℃
储存温度范围 Range of storage temperature	T_{stg}		-40 ~ +150	℃

※ 建议油浸环境中使用 It is recommended to be used in oil-immersed environment

※ 空气中使用必要时需风冷，表面风量>60CFM Air cooling is needed when it is used in the air, and the surface air volume is >60CFM

■外形图示　　Dimension



■正向电流与 PN 结温度的关系

Derating of forward current for PN Junction temperature