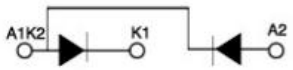
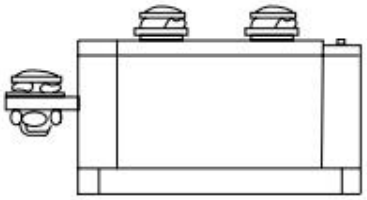
SKKD260-12

Rectifier Diode Modules

FEATURES

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





APPLICATIONS

- Non-controllable rectifiers for AC/DC converters
- Line recitifiers for transistorized AC motor controllers
- Filed supply for DC motor

ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage	t_p=10ms	1200	V
$I_{F(AV)}$	Average Forward Current	Single phase,haif-wave 180° condition, T_C=100℃	260	A
I_{FSM}	Surge Forward Current	10ms,Single phase,haif-wave，V_R=0.6V_{RRM}	11	KA
I^2t	I^2t for fusing		617*10^3	A^2S
V_{iso}	Isolated Voltage		2500	V
T_J	Junction Temperature		-40~125	℃
T_{stg}	Storage Temperature Range		-40~125	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	0.14	℃/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{FM}	Forward Voltage drop	I_F= 600A, T_J= 25℃	1.43	V
I_{RRM}	Instantaneous Reverse Current	V_R=V_{RRM}, T_J=150℃	20	mA

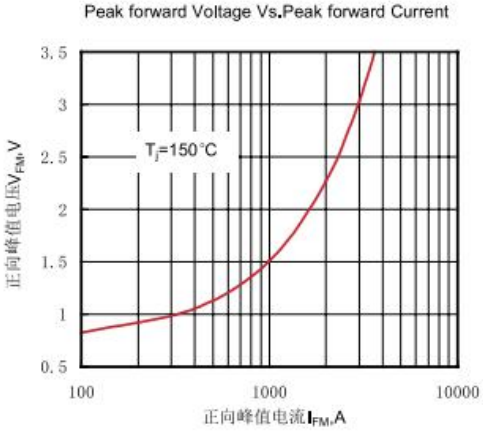


Fig.1 正向伏安特性曲线

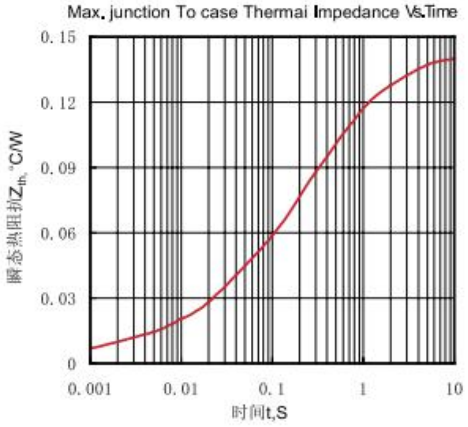


Fig.2 瞬态热阻抗曲线

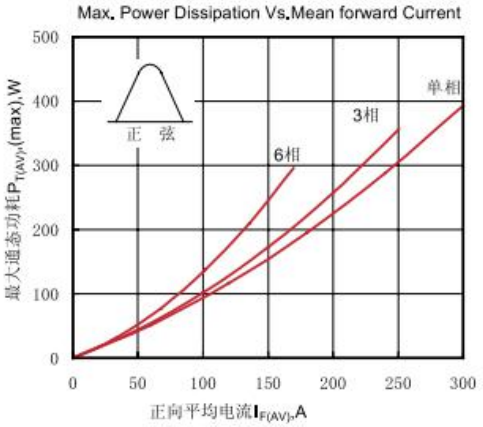


Fig.3最大正向功耗与平均电流的关系曲线

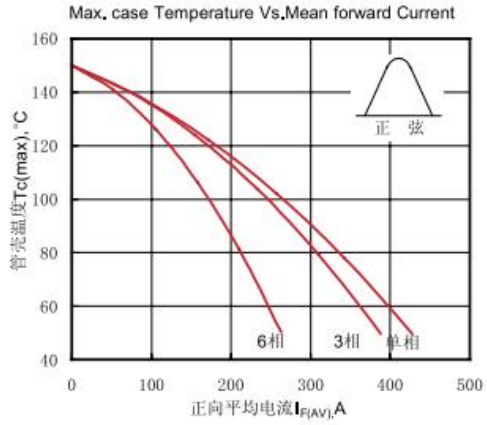


Fig.4管壳温度与正向平均电流的关系曲线

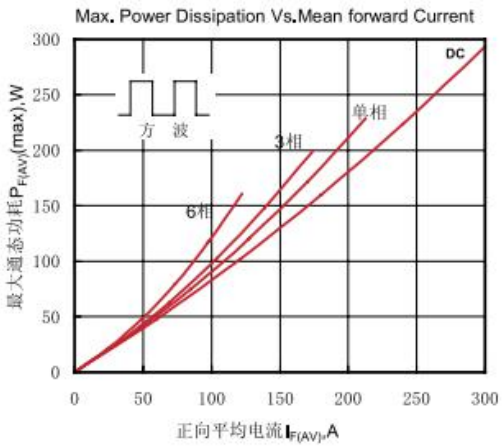


Fig.5最大正向功耗与平均电流的关系曲线

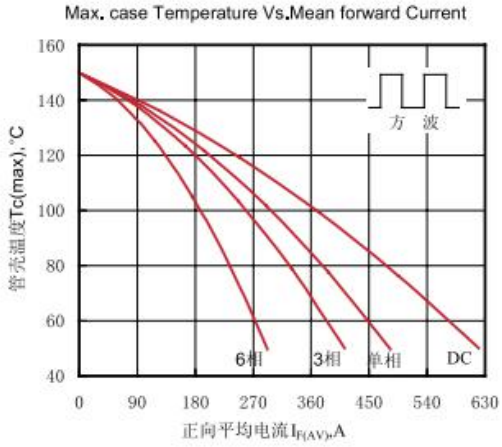


Fig.6管壳温度与正向平均电流的关系曲线

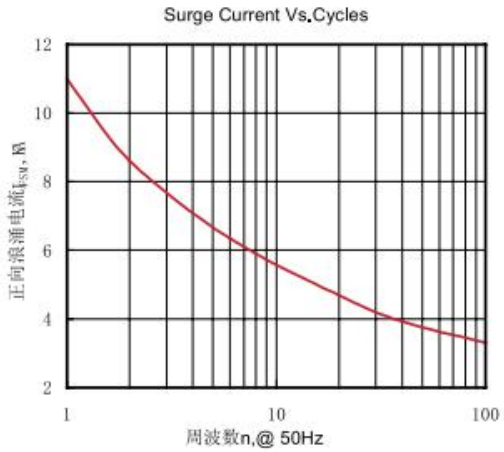


Fig.7 正向浪涌电流与周波数的关系曲线

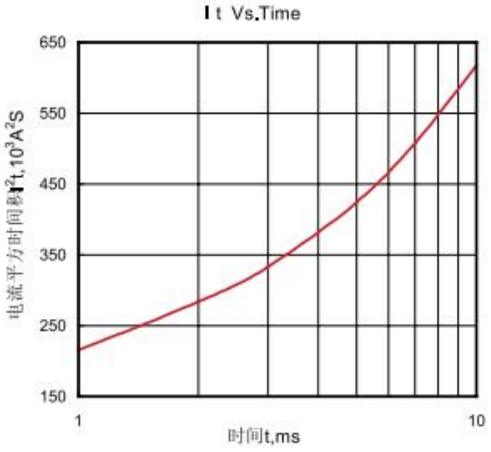
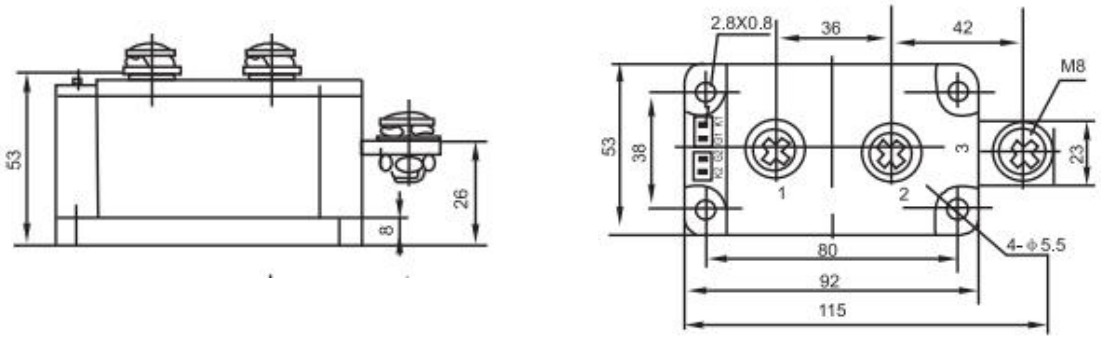


Fig.8 I^2t特性曲线

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394“)



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