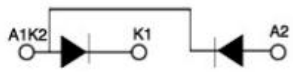
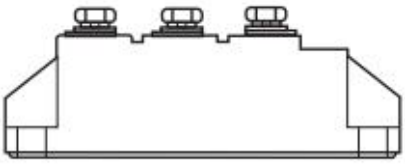
DD81S14K

Diode Rectifier Modules

FEATURES

- Reduced RFI and EMI
- Reduced Snubbing
- Extensive Characterization of Recovery Parameters
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





APPLICATIONS

- These devices are ideally suited for power converters, motors drives and other applications where switching losses are significant portion of the total losses.

ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_R	Repetitive Peak Reverse Voltage	t_p=10ms	1400	V
$I_{F(AV)}$	Average Forward Current	Single phase,haif-wave 180° condition, T_C=100℃	90	A
I_{FSM}	Surge Forward Current	10ms,Single phase,haif-wave，V_R=0.6V_{RRM}	2.3	KA
I^2t	I^2t for fusing	10ms,Single phase,haif-wave，V_R=0.6V_{RRM}	$26.9*10^3$	A^2S
V_{iso}	Isolated Voltage	50Hz	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	0.47	℃/W

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{FM}	Forward Voltage drop	I_F= 270A, T_J= 25℃	1.33	V
I_R	Instantaneous Reverse Current	V_R=V_{RRM}, T_J=150℃	8	mA

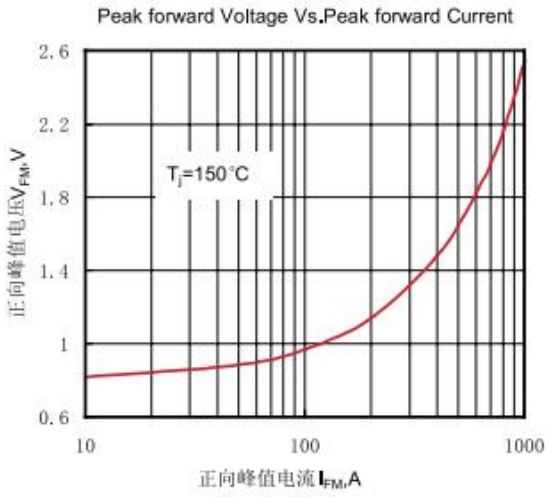


Fig.1 正向伏安特性曲线

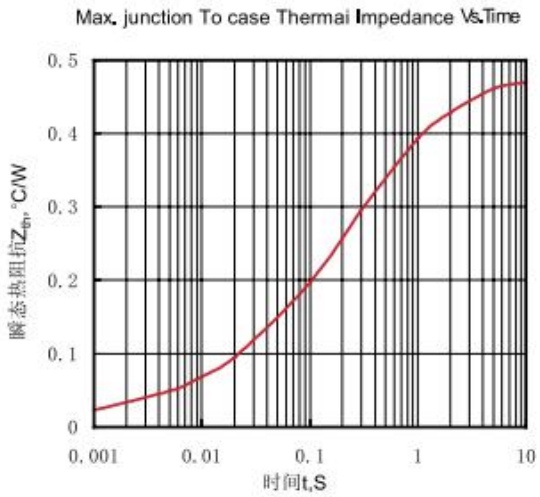


Fig.2 瞬态热阻抗曲线

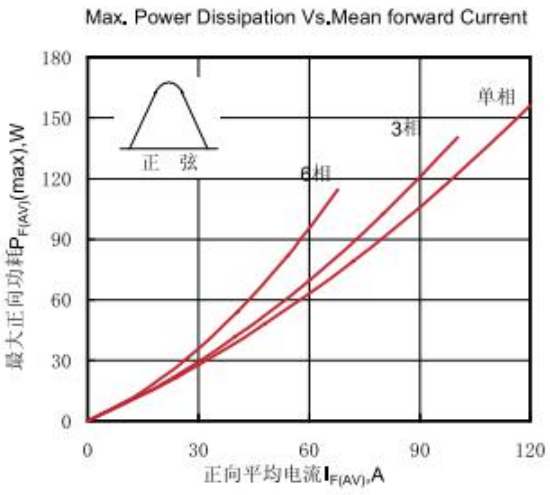


Fig.3最大正向功耗与平均电流的关系曲线

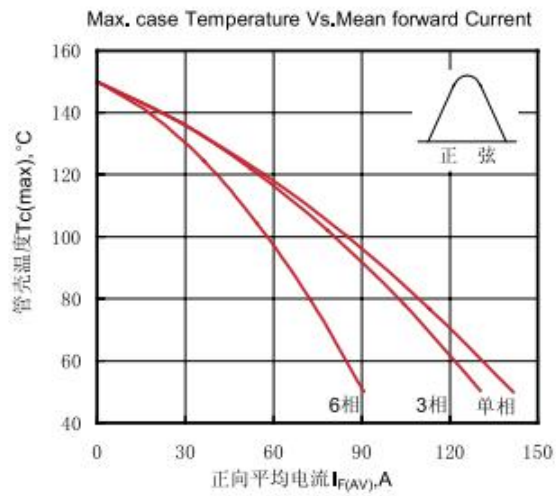


Fig.4管壳温度与正向平均电流的关系曲线

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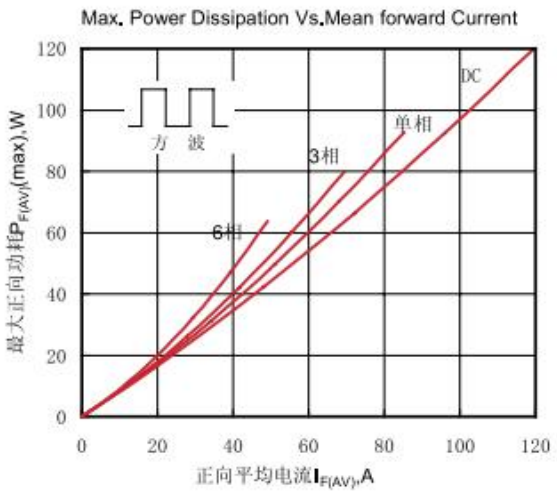


Fig.5最大正向功耗与平均电流的关系曲线

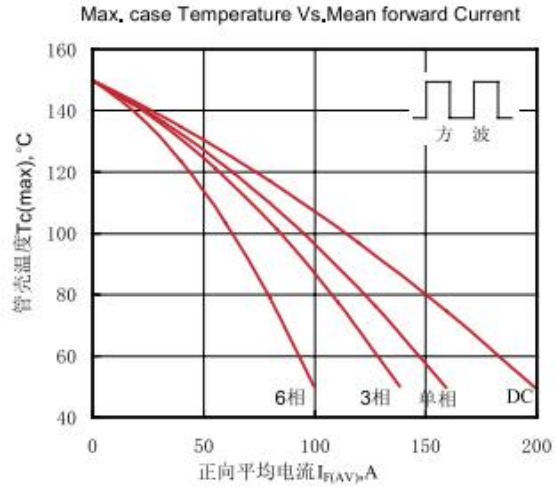


Fig.6管壳温度与正向平均电流的关系曲线

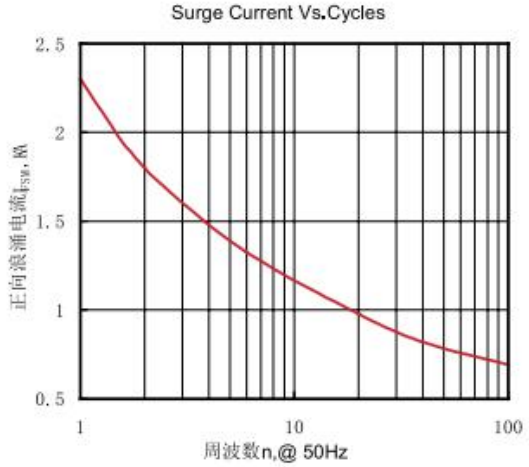


Fig.7 正向浪涌电流与周波数的关系曲线

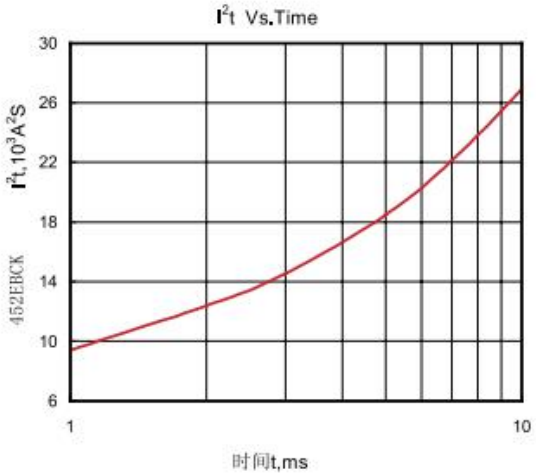
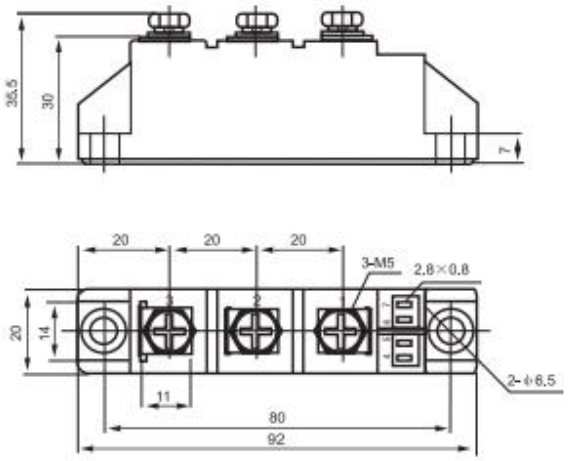


Fig.8 I^2t特性曲线

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394“)



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