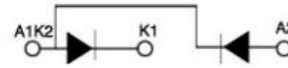


## Rectifier Diode Modules

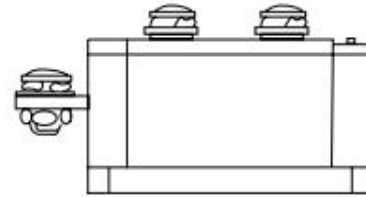
### FEATURES

- 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 rectifiers for transistorized AC motor controllers
- Field 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, half-wave 180° condition, $T_C=100^\circ C$	380	A
$I_{FSM}$	Surge Forward Current	10ms, Single phase, half-wave, $V_R=0.6V_{RRM}$	17	KA
$I^2t$	$I^2t$ for fusing		$1470 \times 10^3$	A <sup>2</sup> S
$V_{iso}$	Isolated Voltage		2500	V
$T_J$	Junction Temperature		-40~125	°C
$T_{stg}$	Storage Temperature Range		-40~125	°C

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	0.1	°C/W

### ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_{FM}$	Forward Voltage drop	$I_F=1200A, T_J=25^\circ C$	1.48	V
$I_{RRM}$	Instantaneous Reverse Current	$V_R=V_{RRM}, T_J=150^\circ C$	30	mA

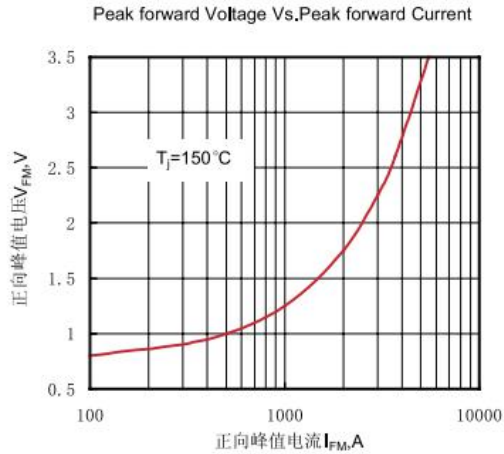


Fig.1 正向伏安特性曲线

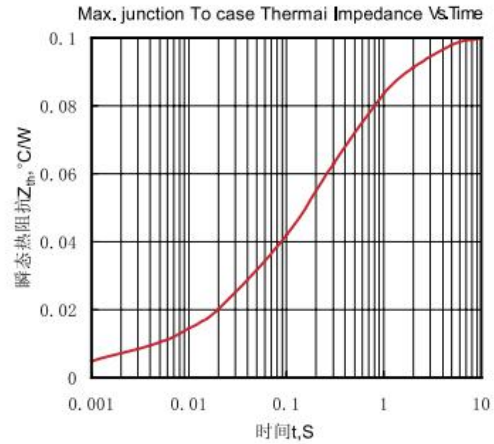


Fig.2 瞬态热阻抗曲线

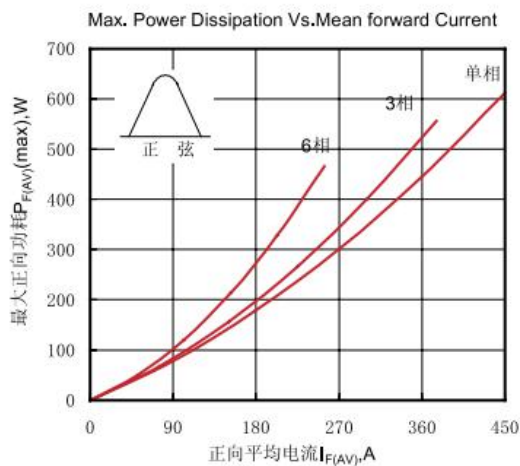


Fig.3最大正向功耗与平均电流的关系曲线-

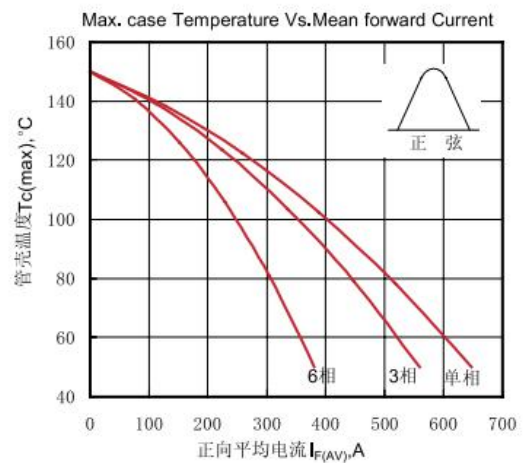


Fig.4管壳温度与正向平均电流的关系曲线

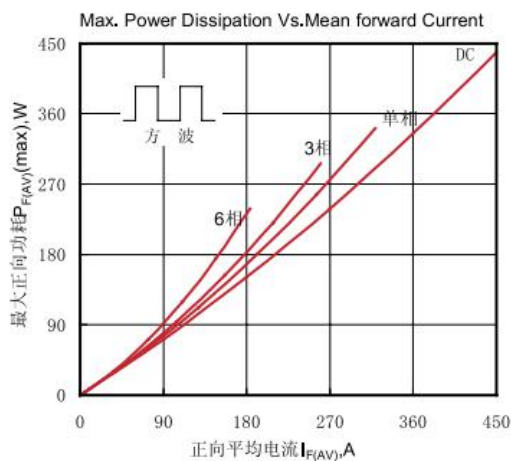


Fig.5最大正向功耗与平均电流的关系曲线

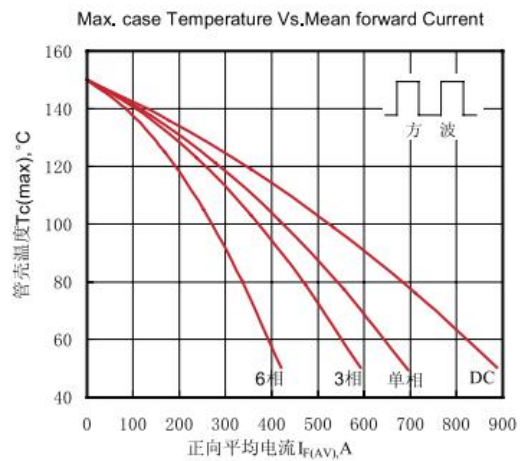


Fig.6管壳温度与正向平均电流的关系曲线

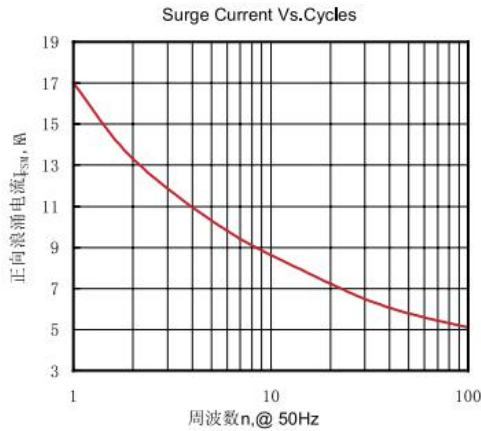


Fig.7 正向浪涌电流与周波数的关系曲线

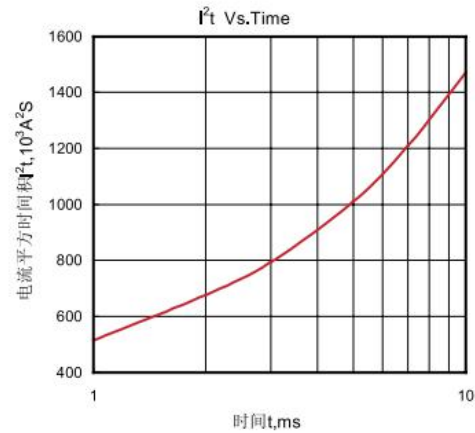
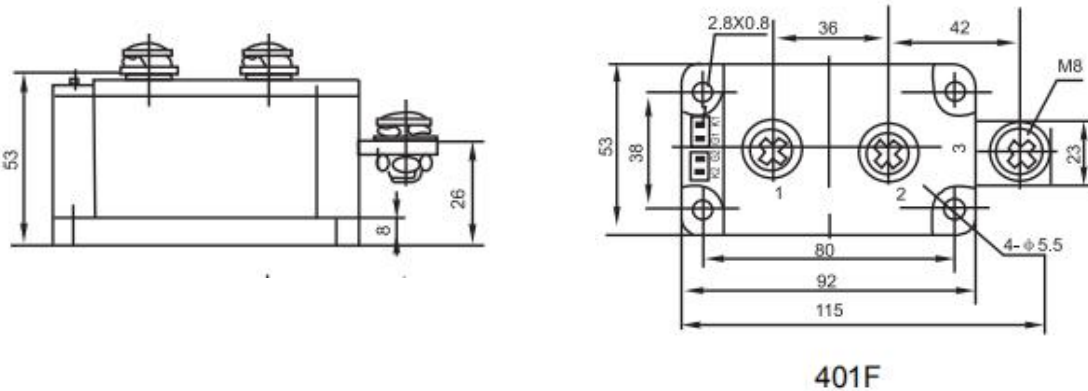


Fig.8  $I^2t$ 特性曲线

### PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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