

## 特点

- 1). 芯片与底板电气绝缘, 2500V交流电压
- 2). 优良的温度特性和功率循环能力
- 3). 低正向压降
- 4). 高浪涌电流
- 5). 最高工作结温达150°C
- 6). 体积小, 重量轻



## 典型应用

- |                    |               |                         |
|--------------------|---------------|-------------------------|
| 1). 仪器设备的直流电源      | $I_o$         | 160A                    |
| 2). PWM 变频器的输入整流电源 | $V_{RRM}$     | 400-2000V               |
| 3). 逆变焊机           | $I_{FSM}$     | 1.8 KA                  |
| 4). 直流电机励磁电源       | $\dot{P}_t$   | $16.5 A^2S \times 10^3$ |
| 5). 开关电源的输入整流      | 7). 电气拖动和辅助电流 |                         |
| 6). 软启动电容充电        | 8). 电池充电直流电源  |                         |

## 主要参数

符号	参数	测试条件	结温	参数值			单位
			$T_j$ (°C)	最小	典型	最大	
$I_o$	直流输出电流	单相全波整流电路, $T_c=100^\circ C$	150			160	A
$V_{RRM}$	反向重复峰值电压	$V_{RRM}$ tp=10ms $V_{RSM}=V_{RRM}+200V$	150	400	1600	2000	V
$I_{RRM}$	反向重复峰值电流	at $V_{RRM}$	150			5	mA
$I_{FSM}$	正向不重复浪涌电流	10ms 正弦半波	150			1.8	KA
$\dot{P}_t$	浪涌电流平方时间积	$V_R=0.6V_{RRM}$				16.5	$A^2s \times 10^3$
$V_{FO}$	门槛电压		150			0.75	V
$r_F$	斜率电阻					1.9	$m\Omega$
$V_{FM}$	正向峰值电压	$I_{FM}=160A$	25			1.30	V
$R_{th(j-c)}$	热阻抗(结至壳)	单面散热				0.1	°C/W
$R_{th(c-h)}$	热阻抗(壳至散热器)	单面散热				0.07	°C/W
$V_{iso}$	绝缘电压	50Hz,R.M.S,t=1min, $I_{iso}:1mA(max)$		2500			V
$F_m$	安装扭矩(M6)				6		N·m
	安装扭矩(M5)				4		N·m
$T_{stg}$	贮存温度		-40		125		°C
$W_t$	质量	外形为103A		460			g
Size	包装盒尺寸	115×82×52 (1只装)					mm

## 性能曲线图

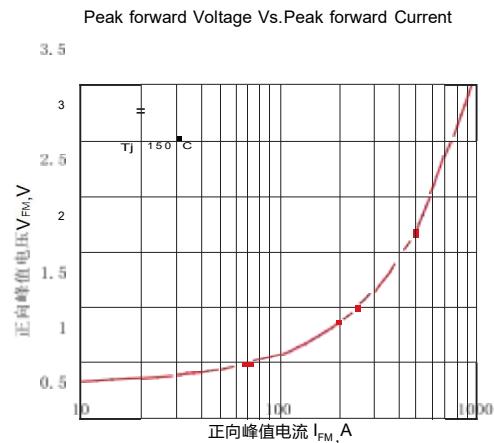


Fig. 1 正向伏安特性曲线

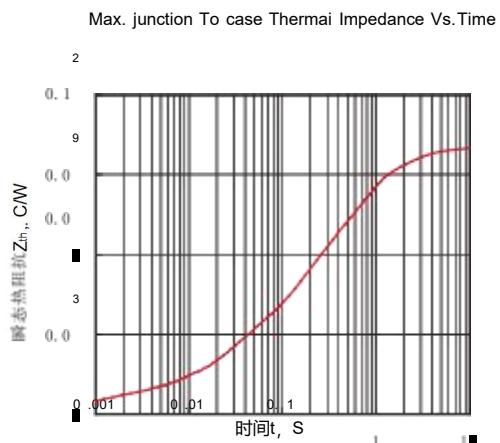


Fig. 2 瞬态热阻抗曲线

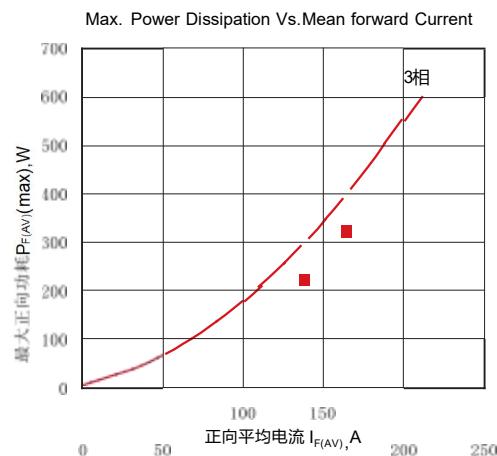


Fig. 3 最大正向功耗与平均电流的关系曲线

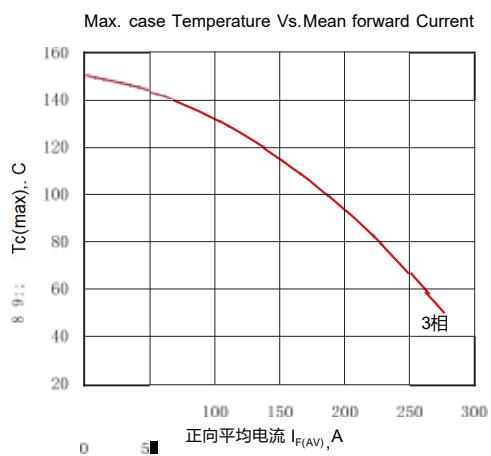


Fig. 4 管壳温度与平均电流的关系曲线

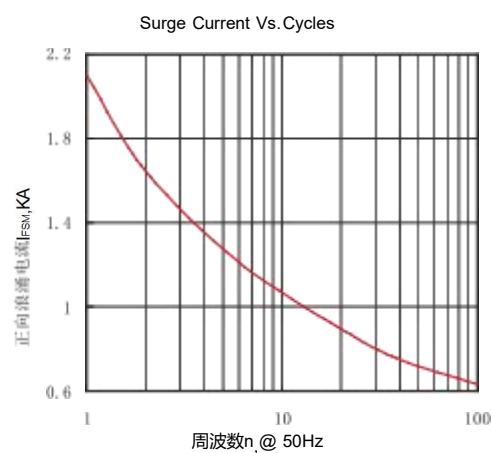
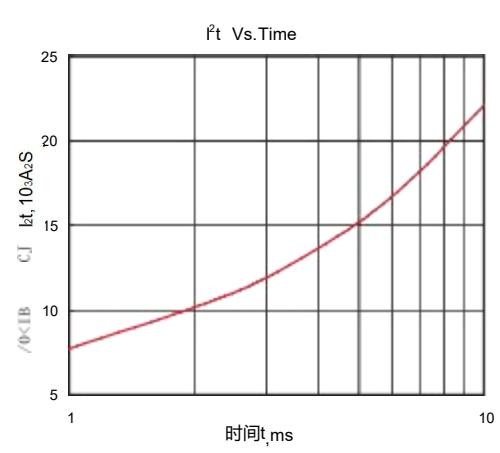
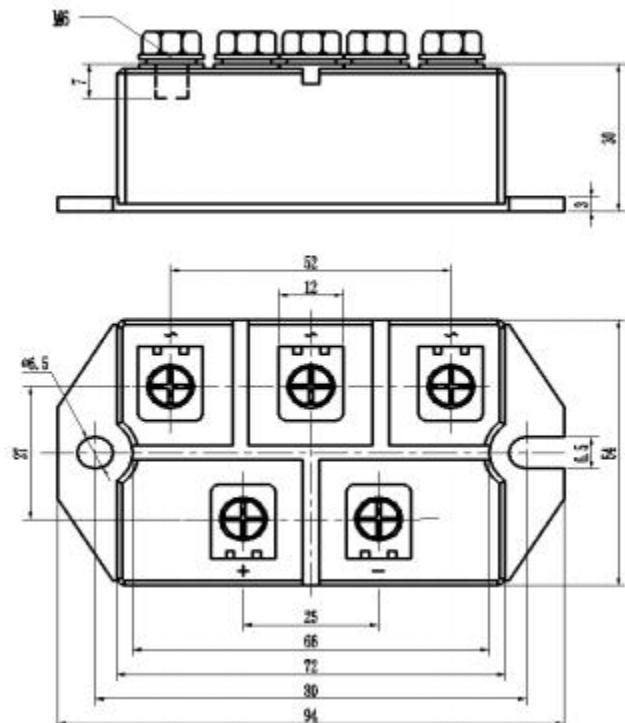


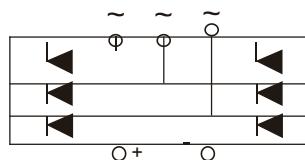
Fig. 5 正向浪涌电流与周波数的关系曲线

Fig. 6  $I^2t$  特性曲线

外形尺寸图



线路图

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