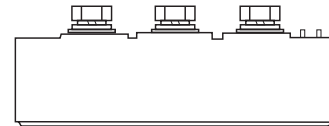


特点

- 1). 芯片与底板电气绝缘, 2500V交流电压
- 2). 全压接结构, 优良的温度特性和功率循环能力
- 3). 体积小, 重量轻



典型应用

- | | | |
|-------------|-------------|------------------------|
| 1). 交直流电机控制 | $I_{F(AV)}$ | 160A |
| 2). 各种整流电源 | V_{RRM} | 600~1800V |
| 3). 变频器 | I_{FSM} | $6 A \times 10^3$ |
| | I^2t | $184 A^2S \times 10^3$ |

主要参数

符号	参数	测试条件	结温	参数值			单位
			$T_j(^{\circ}C)$	最小	典型	最大	
$I_{F(AV)}$	正向平均电流	180° 正弦半波, 50Hz, 单面散热, $T_c=100^{\circ}C$	150			160	A
$I_{F(RMS)}$	方均根电流		150			251	A
V_{RRM}	反向重复峰值电压	V_{RRM} tp=10ms, $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
I_{RRM}	反向重复峰值电流	$V_{RM} = V_{RRM}$	150			12	mA
I_{FSM}	正向不重复浪涌电流					6.00	KA
I^2t	浪涌电流平方时间积	10ms底宽, 正弦半波, $V_R = 0.6V_{RRM}$	150			184	$A^2s \times 10^3$
V_{FO}	门槛电压		150			0.80	V
r_F	斜率电阻					1.35	mΩ
V_{FM}	正向峰值电压	$I_{FM} = 480A$	25			1.56	V
$R_{th(j-c)}$	热阻抗(结至散热器)	180° 正弦半波, 单面散热				0.230	$^{\circ}C / W$
$R_{th(c-h)}$	热阻抗(壳至散)	180° 正弦半波, 单面散热				0.08	$^{\circ}C / W$
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(M6)				6		N·m
T_{stg}	贮存温度			-40		125	$^{\circ}C$
W_t	质量	外形为301F			320		g
Size	包装盒尺寸	210 × 113 × 42 (6只装)					mm

性能曲线图

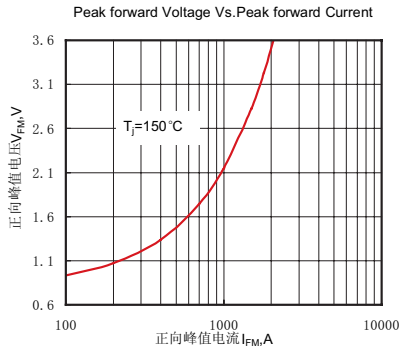


Fig.1 正向伏安特性曲线

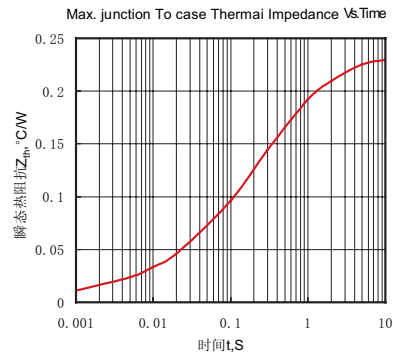


Fig.2 瞬态热阻抗曲线

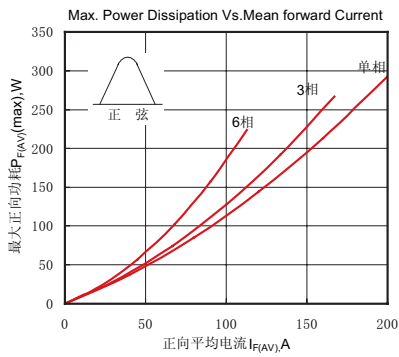


Fig.3最大正向功耗与平均电流的关系曲线

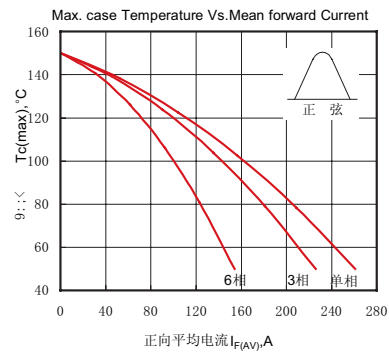


Fig.4管壳温度与正向平均电流的关系曲线

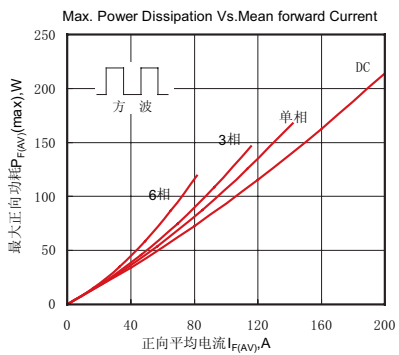


Fig.5最大正向功耗与平均电流的关系曲线

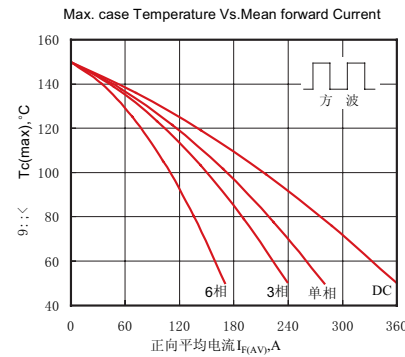


Fig.6管壳温度与正向平均电流的关系曲线

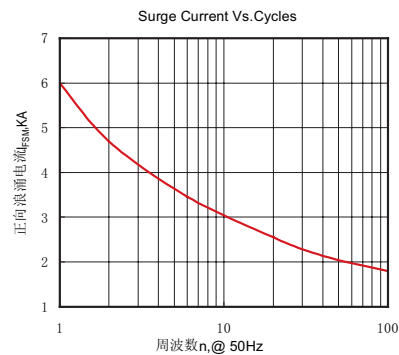


Fig.7 正向浪涌电流与周波数的关系曲线

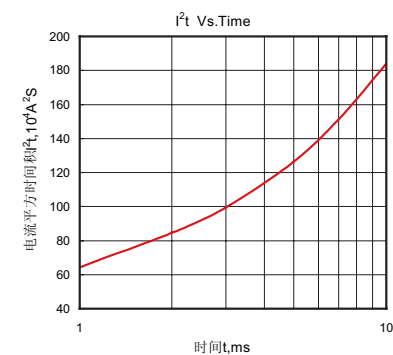
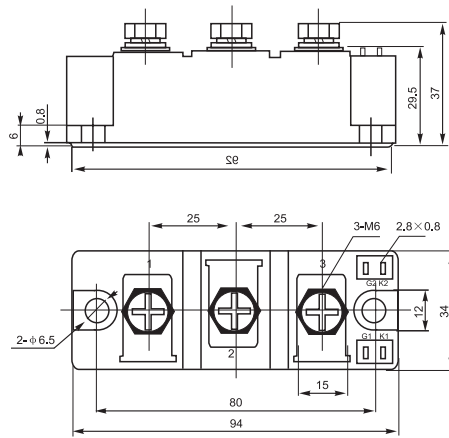
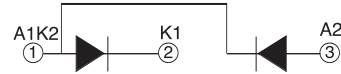


Fig.8 I²t特性曲线

外形尺寸图



301F



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