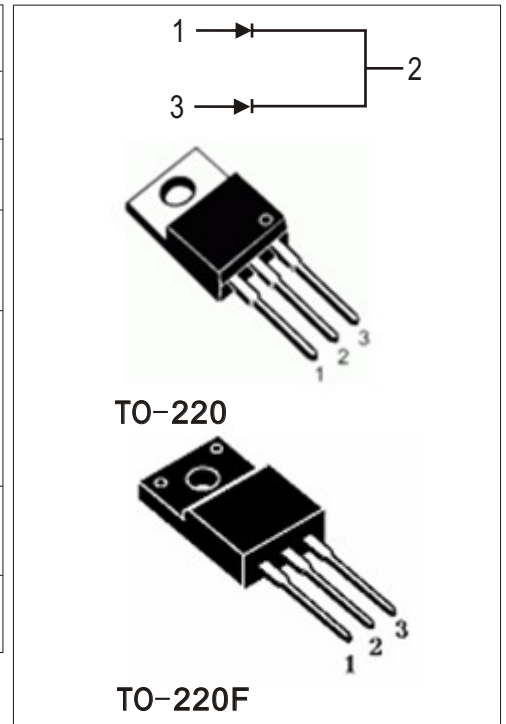


- 特点：抗高浪涌性能 高功效 低正向电压 大电流 低功耗 符合ROHS规范
- FEATURES: ■HIGH SURGE CAPABILITY ■HIGH EFFICIENCY ■LOWFORWARD VOLTAGE
■HIGH CURRENT CAPABILITY ■LOWPOWER LOSS ■ROHS COMPLIANT
- 应用：低压高频逆变电路 续流电流 保护电流
- APPLICATION: ■LOW VOLTAGE HIGH FREQUENCY INVERTERS ■FREE WHEELING
■POLARITY PROTECTION APPLICATIONS

● 最大额定值：(Tc=25°C)

● Absolute Maximum Ratings (Tc=25°C) TO-220/TO-220F

参数 PARAMETER	符号 SYMBOL	额定值 VALUE	单位 UNIT
向重复峰值电压 Repetitive Peak Reverse Voltage	V _{RRM}	150	V
最大直流阻断电压 Maximum DC Reverse Voltage	V _{RRM}	150	V
平均整流输出电流 Average Rectified Output Current @TC=125°C	I _{F(AV)}	20	A
正向峰值浪涌电流 Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200	A
最高结温 Maximum Operating Junction Temperature	T _j	175	°C
贮存温度 Storage Temperature	T _{STG}	-65-150	°C



● 电特性：(Tc=25°C)

● Electronic Characteristics (Tc=25°C)

参数 PARAMETER	符号 SYMBOL	测试条件 TEST CONDITION	典型值 TYP	最小值 MIN	最大值 MAX	单位 UNIT
正向压降 Forward Voltage Drop	V _{FM}	@I _F =5A, Tc=25°C			0.96	V
		@I _F =5A, Tc=125°C			0.67	
		@I _F =10A, Tc=25°C			0.88	
		@I _F =10A, Tc=125°C			0.75	
反向电流 Peak Reverse Current @ Rated V _R	I _{RM}	Tc=25°C			0.1	mA
		Tc=125°C			10	

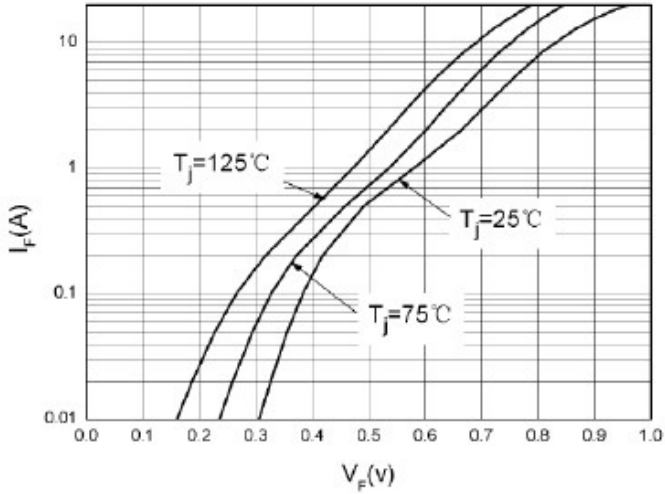
● 热特性

● Thermal Characteristics

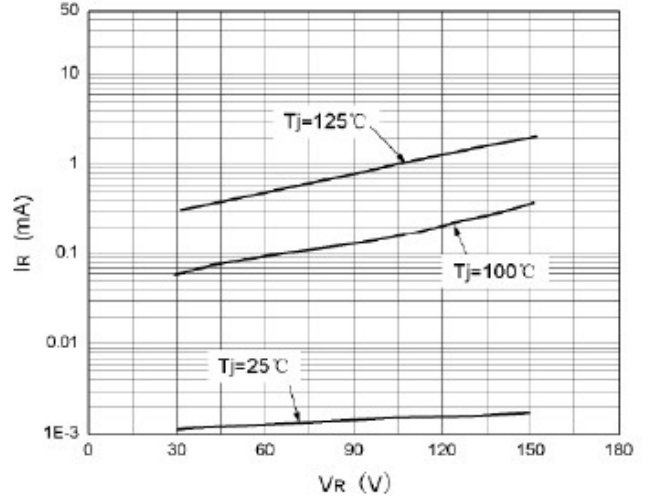
参数 PARAMETER	符号 SYMBOL	最大值 MAX	单位 UNIT
热阻结-壳 Thermal Resistance Junction-case	R _{thjc}	TO-220: 1.5	K/W
		TO-220F: 4.0	

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

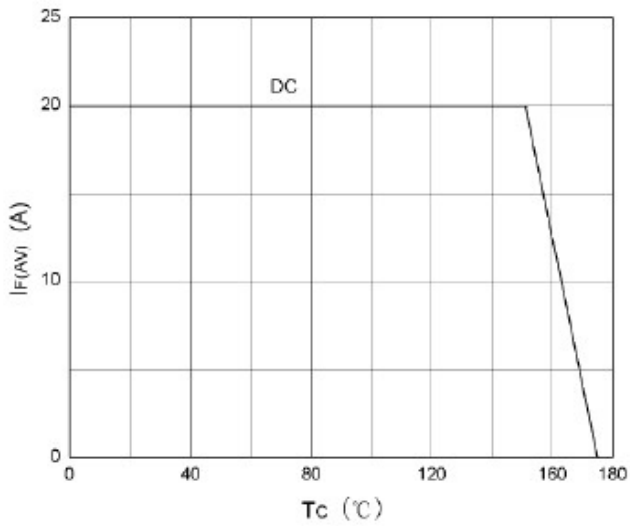
IF vs VF



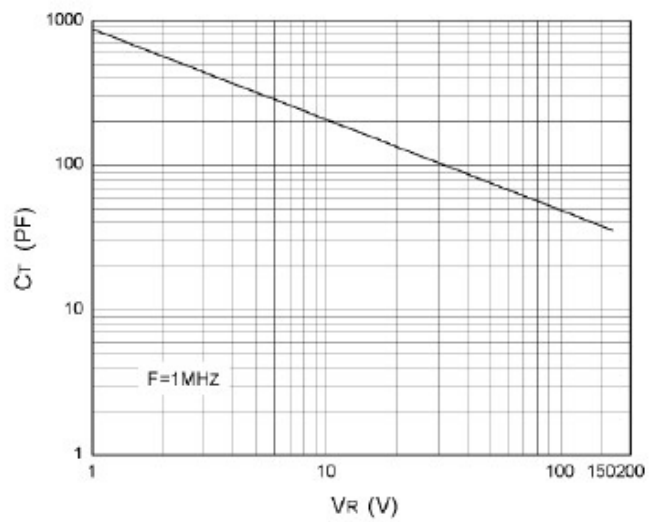
IR vs VR



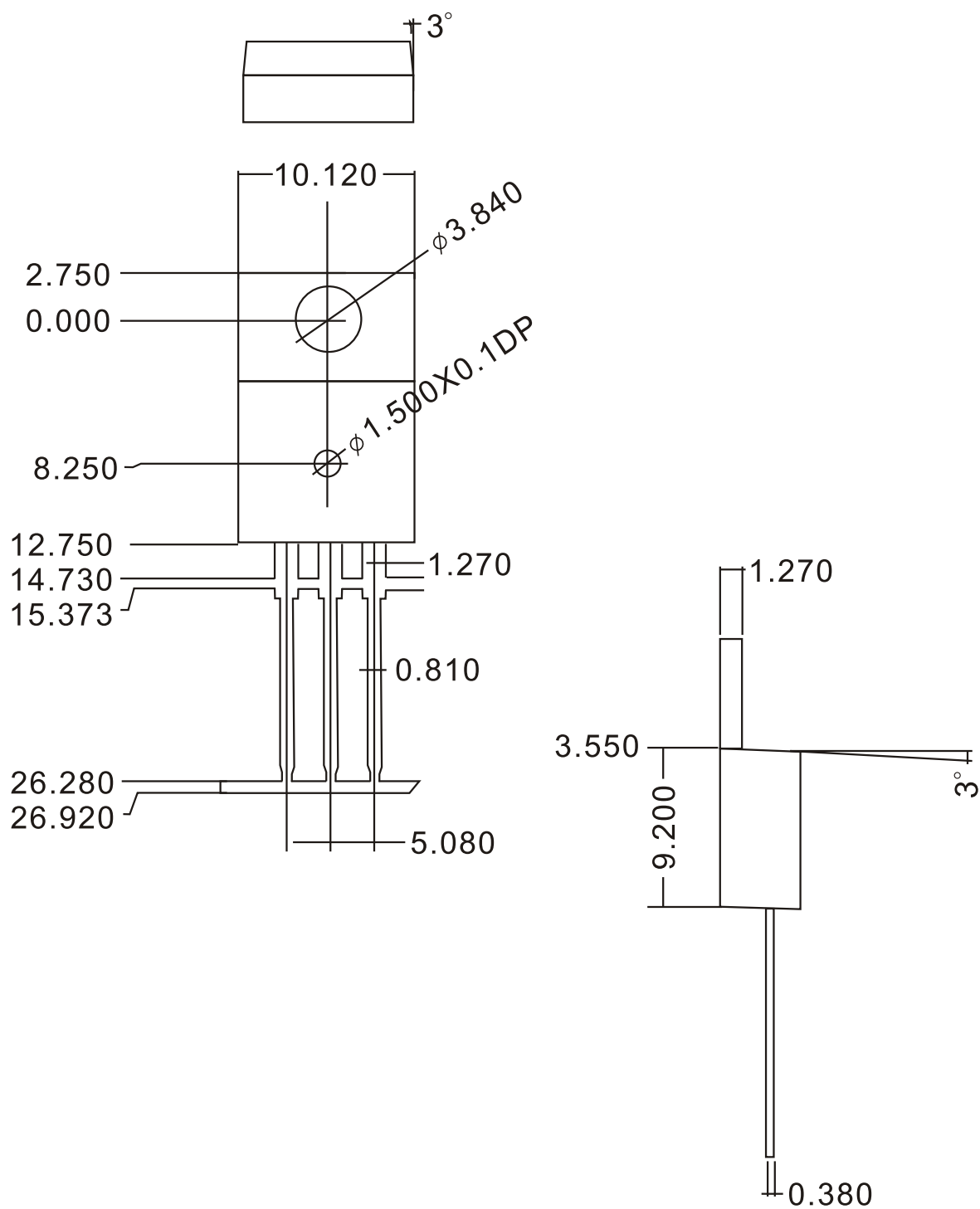
IF(AV) vs Tc



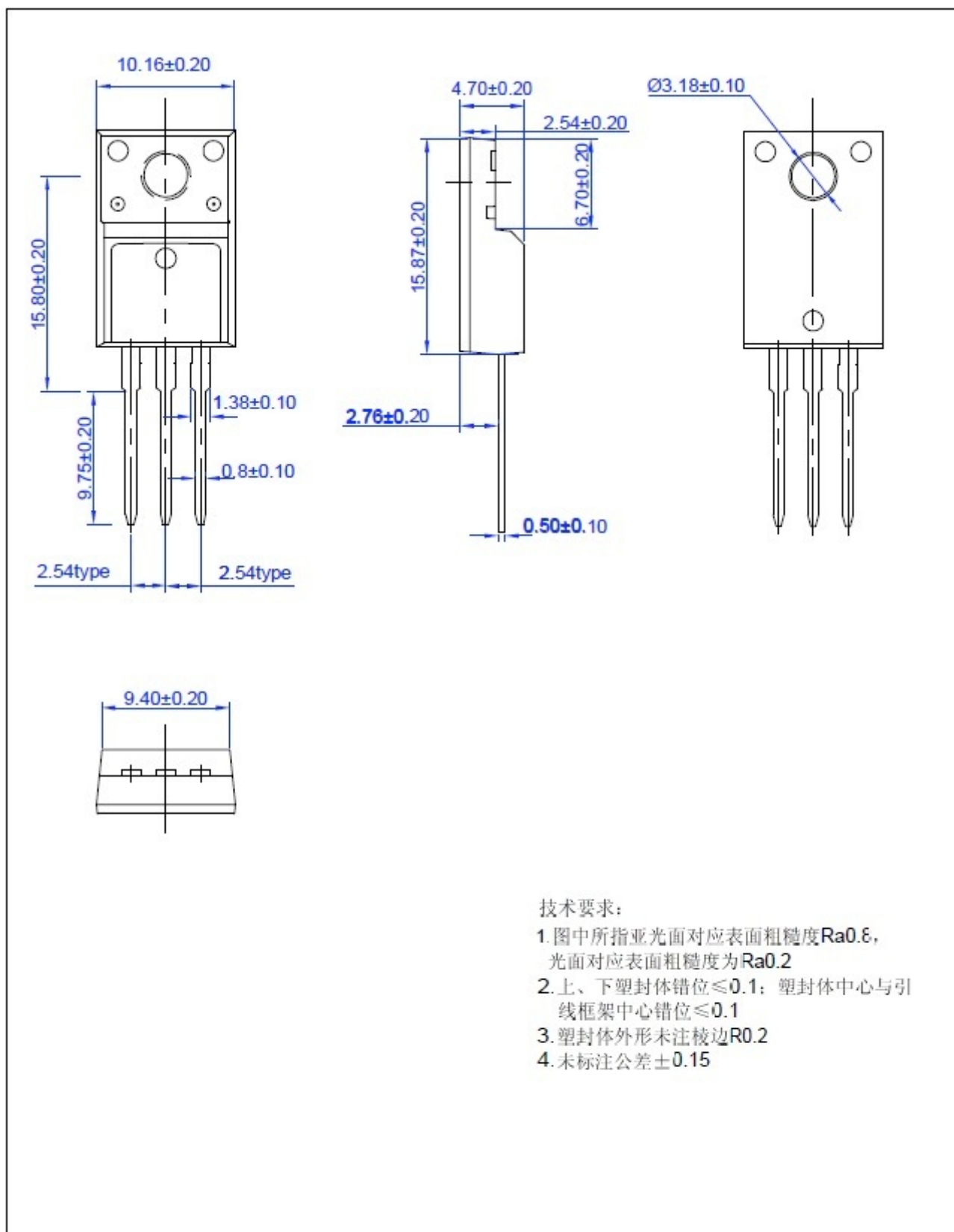
CT vs VR



TO-220机械尺寸图

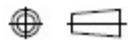


TO-220F机械尺寸图



技术要求:

1. 图中所指亚光面对应表面粗糙度Ra0.8, 光面对应表面粗糙度为Ra0.2
2. 上、下塑封体错位 ≤ 0.1 ; 塑封体中心与引线框架中心错位 ≤ 0.1
3. 塑封体外形未注棱边R0.2
4. 未标注公差 ± 0.15

NAME.	TO-220F	UNIT	mm	DESIGNED		THIRD ANGLE SYSTEM 
DWGNO	HW-DT-008c	PAGE	1OF1	CHECKED		
VERSION	Ver.C	ISSUE DATE	Oct/10/2012	APPROVED		