



# DFRF20A20CT-DFRF20A60CT

塑封超快速整流二极管

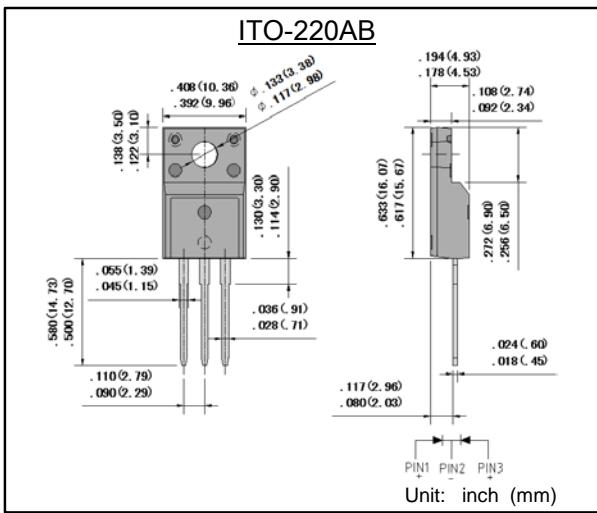
反向电压 200 ~ 600 V

正向电流 20 A

Plastic Ultra-Fast Recovery Rectifiers

Reverse Voltage 200 ~ 600 V

Forward Current 20 A



## 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力强 High forward surge capability
- 高信赖性 High reliability
- 引线和管体皆符合RoHS标准 Lead and body according with RoHS standard
- 型号后缀“-F”标记无卤素产品 Green compound with suffix "-F" on Marking

## 机械数据 Mechanical Data

- 封装外形: ITO-220AB 塑封 Case: ITO-220AB Molded plastic
- 环氧树脂 : UL易燃等级 : 94V-0  
Epoxy: UL 94V-0 rate flame retardant
- 引脚 : 镀锡,无铅 Lead: Pure tin plated, lead free
- 安装位置: 任意 Mounting Position: Any
- 安装扭距: 推荐值 0.3牛\*米 Mounting torque : Recommend 0.3 N\*m

**最大值和特性** TA = 25°C 除非另有规定。

## Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	DFRF 20A20CT	DFRF 20A30CT	DFRF 20A40CT	DFRF 20A60CT	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	300	400	600	V
最大均方根电压 Maximum RMS voltage	V <sub>RMS</sub>	140	210	280	420	V
最大直流阻断电压 Maximum DC blocking voltage	V <sub>DC</sub>	200	300	400	600	V
最大正向平均整流电流 Maximum average forward rectified current	I <sub>F(AV)</sub>	20.0				A
正向不重复浪涌电流 8.3 ms单一正弦半波 Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I <sub>FSM</sub>	125				A
最大正向电压 @IF=10.0A Maximum forward voltage	V <sub>F</sub>	0.98	1.30	1.80		V
最大反向电流 @V <sub>DC</sub> TA= 25°C Maximum reverse current	I <sub>R</sub>	30				μA
最大反向恢复时间 IF=0.5A , IR=1.0A ,IRR=0.25A MAX. reverse recovery time	T <sub>rr</sub>	40				ns
典型热阻 Typical thermal resistance (Note 1)	R <sub>θJC</sub>	5.5				°C/W
工作结温和存储温度 Operating junction and storage temperature rang	T <sub>j</sub> , T <sub>STG</sub>	-55 --- +150				°C

备注 Note:

1) 安装在PCB板上，从PN结到管体的热阻。

1) Thermal resistance from junction to case , PCB mounted.



## 特性曲线 Characteristic Curves

