DFR10A20-DFR10A60

塑封超快速整流二极管

反向电压 200 ~ 600 V

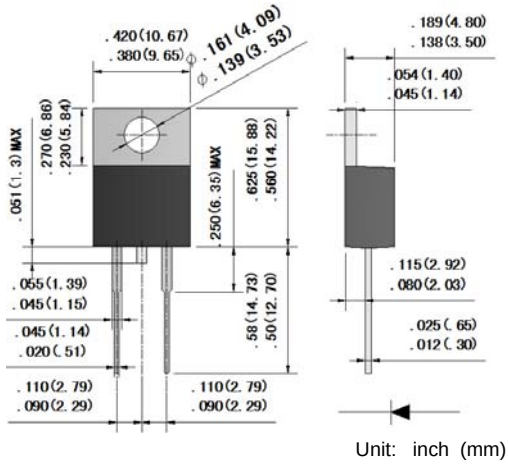
正向电流 10 A

Plastic Ultra-Fast Recovery Rectifiers

Reverse Voltage 200 ~ 600 V

Forward Current 10 A

TO-220AC



Unit: inch (mm)

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: TO-220AC 塑封 Case: TO-220AC 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℃ 除非另有规定。
Maximum Ratings & Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	DFR 10A20	DFR 10A30	DFR 10A40	DFR 10A60	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	200	300	400	600	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	140	210	280	420	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	200	300	400	600	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	10.0				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_{FSM}	125				A
最大正向电压 @IF=10.0A Maximum forward voltage	V_F	0.98	1.30		1.80	V
最大反向电流 @V_{DC} TA= 25℃ Maximum reverse current	I_R	30				μA
最大反向恢复时间 IF=0.5A , IR=1.0A ,IRR=0.25A MAX. reverse recovery time	Trr	30	40			ns
典型热阻 Typical thermal resistance (Note 1)	RθJC	2.5				℃/W
工作结温和存储温度 Operating junction and storage temperature rang	Tj, TSTG	-55 --- +150				℃

备注 Note:

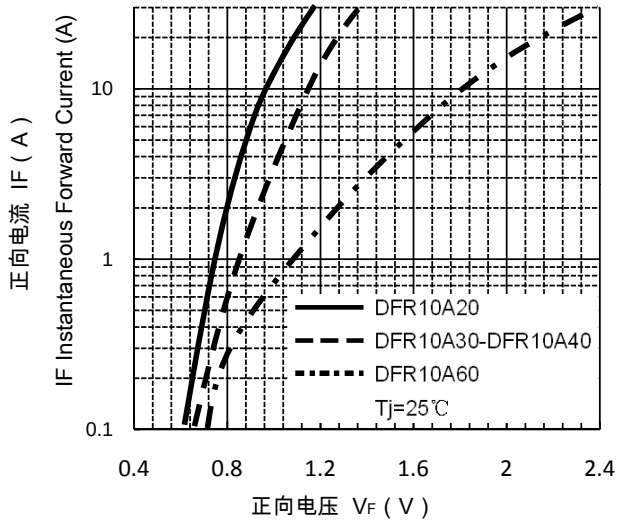
1) 安装在PCB板上，从PN结到管体的热阻。

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

特性曲线 Characteristic Curves

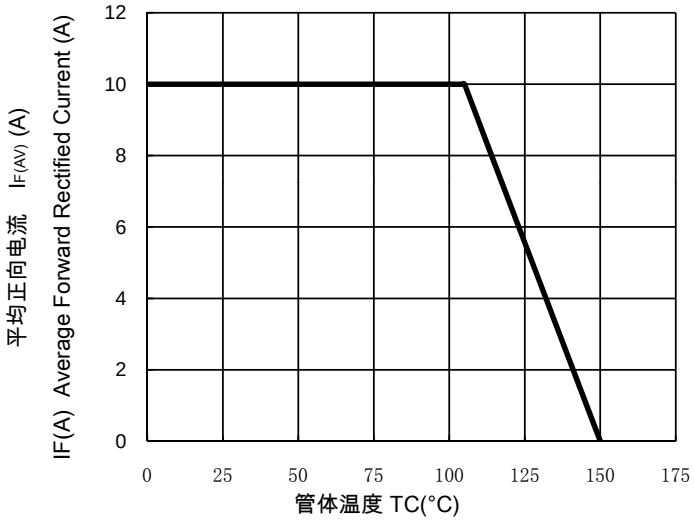
正向特性曲线（典型值）

TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线

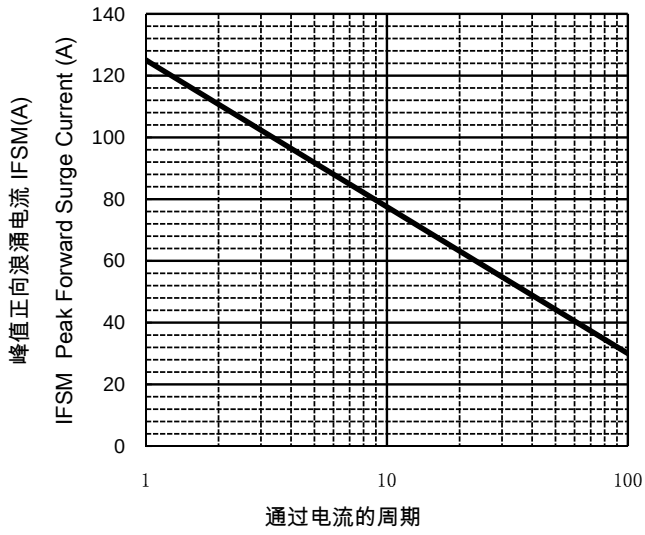
FORWARD CURRENT DERATING CURVE



浪涌特性曲线（最大值）

MAXIMUM NON REPETITIVE

PEAK FORWARD SURGE CURRENT



反向特性曲线

Typical Reverse Characteristics