



塑封超快速整流二极管

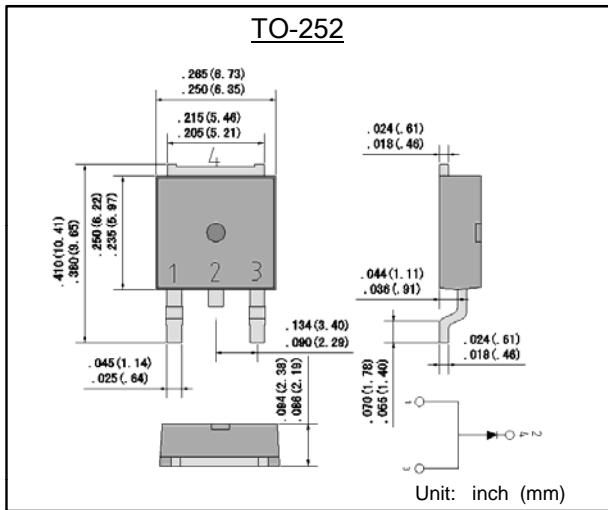
反向电压 400 V

正向电流 10 A

Plastic Ultra-Fast Recovery Rectifiers

Reverse Voltage 400 V

Forward Current 10 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: TO-252 塑封 Case: TO-252 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	DFRS10A40	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V _{RRM}	400	V
最大均方根电压 Maximum RMS voltage	V _{RMS}	280	V
最大直流阻断电压 Maximum DC blocking voltage	V _{DC}	400	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}	100	A
最大正向电压 @IF=10.0A Maximum forward voltage	V _F	1.30	V
最大反向电流 @V _{DC} TA= 25°C 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	T _{rr}	40	ns
典型热阻 Typical thermal resistance (Note 1)	R _{θJC}	2.0	°C/W
工作结温和存储温度 Operating junction and storage temperature range	T _j , T _{STG}	-55 --- +150	°C

备注 Note:

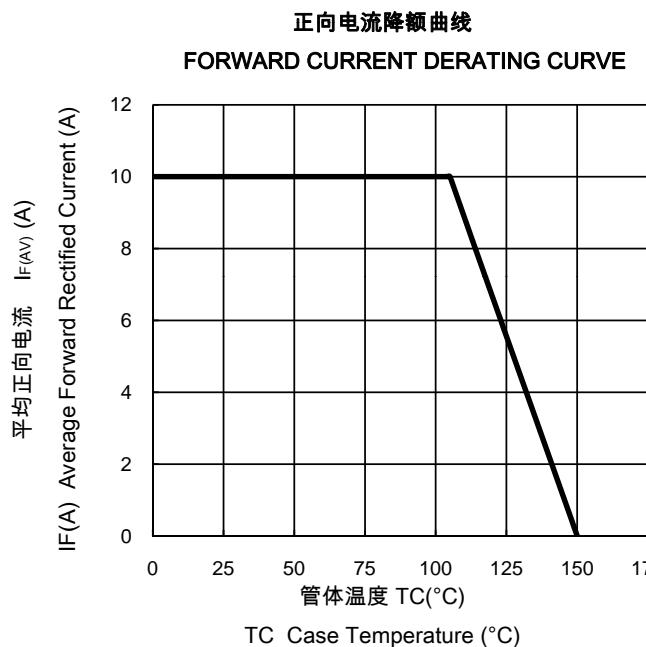
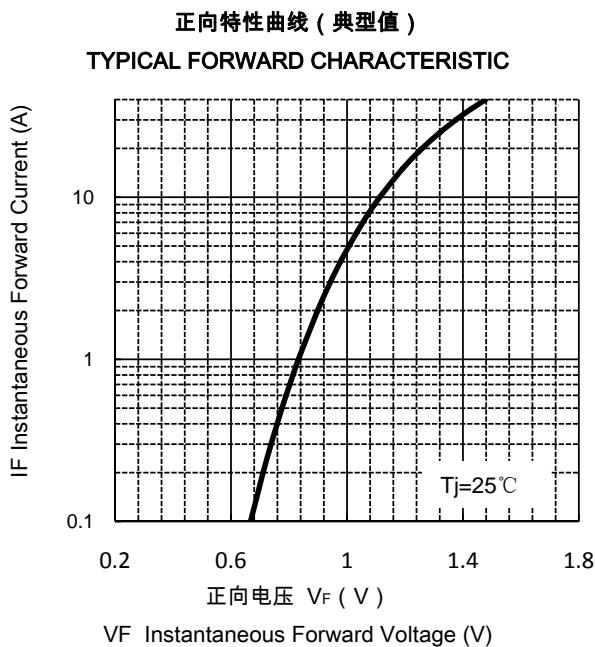
1) 安装在PCB板上，从PN结到管体的热阻。

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

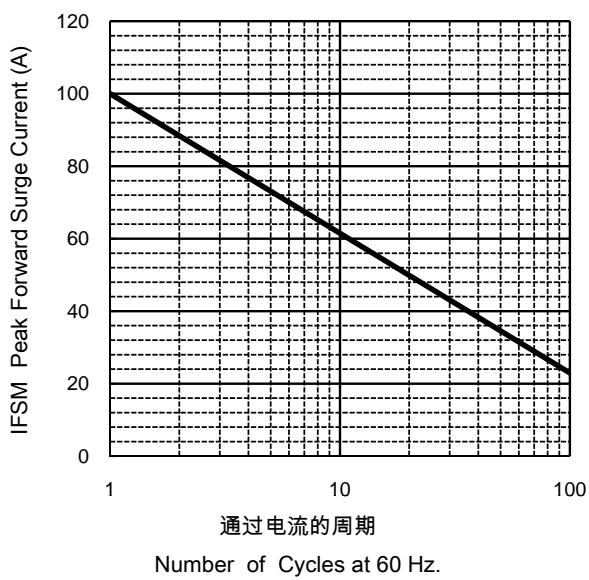


特性曲线 Characteristic Curves

正向电流 IF (A)



峰值正向浪涌电流 IFSM(A)

反向电流 IR(uA)
Reverse Current(uA)