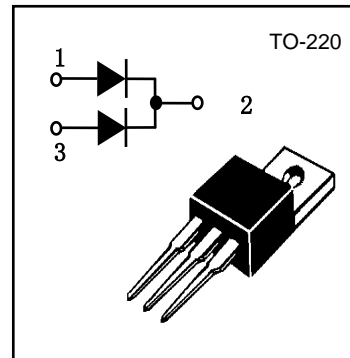


### APPLICATIONS

- High efficiency switch mode power supplies
- Free wheeling diodes. polarity protection application

### FEATURES

- Common cathode structure
- Low power loss,high efficiency
- High Operating Junction Temperature.
- Guard ring for overvoltage protection, High reliability
- ROHS product



### 绝对最大额定值 ABSOLUTE RATINGS(Tc=25°C)

项目 Parameter	符号 SYMBOL	数值 Value	单位 UNIT
最大反向重复峰值电压 Repetitive peak reverse voltage	VRRM	40	V
最大直流阻断电压 Maximum DC blocking voltage	VDC	40	V
正向平均整流电流 Average forward current	IF(AV)	10	A
整个器件 per device		5	
正向峰值浪涌电流 Surge non repetitive forward current	IFSM	80	A
最高结温 Maximum junction temperature	TJ	150	°C
存储温度 Storage temperature range	TSTG	-40~+150	°C

### 电特性 Electronic Character istics (Tc=25°C)

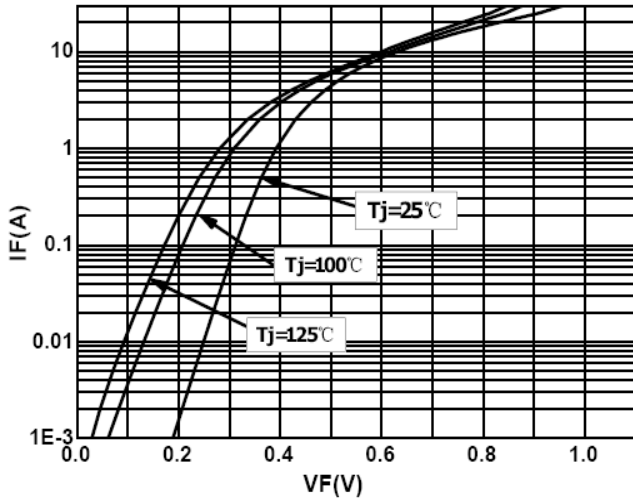
项目 Parameter	测试条件 Tests conditions		最小值 Value (min)	典型值 Value (typ)	最大值 Value (max)	单位 UNIT
IR	TJ=25°C	VR=VRRM			50	uA
	TJ=125°C				50	mA
VF	TJ=25°C	IF=5A		0.52	0.58	V
	TJ=125°C				0.48	V

### 热特性 THERMAL CHARACTERISTICS

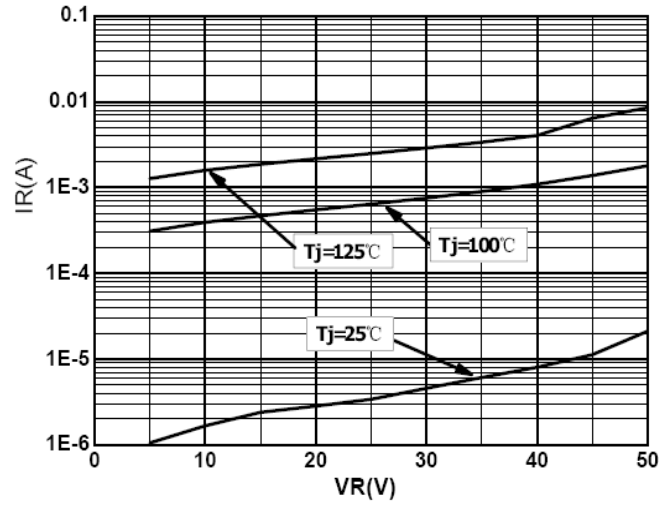
项目 Parameter	符号 Symbol	最小值 Value(min)	最大值 Value(max)	单位 Unit
结到管壳的热阻 Thermal resistance from junction to case	Rth(j-c)		1.9	°C/W

特性曲线 ELECTRICAL CHARACTERISTICS(CURVES)

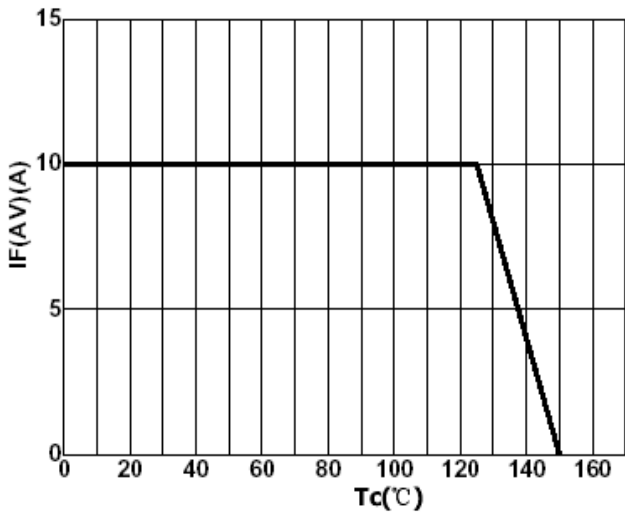
$I_F$  vs  $V_F$



$I_R$  vs  $V_R$



$I_{F(AV)}$  vs  $T_c$



$C_T$  vs  $V_R$

