



Schottky Barrier Rectifiers 肖特基势垒整流二极管

Reverse Voltage - 30 to 150 Volts
反向电压 30-150V
Forward Current - 20.0 Amperes
正向电流 20A

Features 特征

- Low forward voltage drop 正向压降低
- High current capability 通电能力高
- High surge capability 耐浪涌能力高
- The plastic material carries UL recognition 94V-0
塑封体符合UL 94V-0 阻燃等级

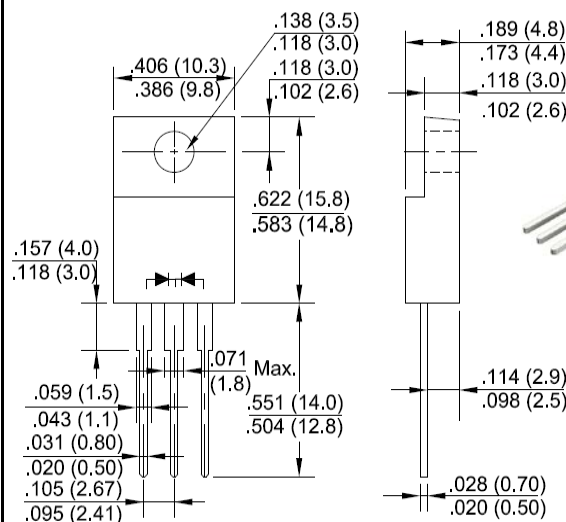
Mechanical Data 外观信息

- Case: JEDEC ITO-220AB molded plastic 封装: ITO-220AB
- Polarity: As marked on the body 极性: 标识在本体上
- Mounting position: Any 安装位置: 不限

Applications 应用

- For use in low voltage, high frequency inverters, polarity protection applications.
应用于低压, 高频变换器, 极性保护。

ITO-220AB



RoHS
COMPLIANT



Maximum Ratings and Electrical Characteristics 最大额定值及电气特性

Rating at 25°C ambient temperature unless otherwise specified. 环境温度25°C, 除非特别说明。

Single phase, half wave, 60Hz, resistive or inductive load. 单相半波, 60Hz, 阻性或感性负载。

For capacitive load, derate current by 20%. 对于电容性负载, 降低20%的额定电流。

Characteristics 特性	Symbol 符号	SRF 2030CT	SRF 2040CT	SRF 2050CT	SRF 2060CT	SRF 2080CT	SRF 20100CT	SRF 20150CT	Unit 单位
Maximum Repetitive Peak Reverse Voltage 最大重复峰值反向电压	V _{RRM}	30	40	50	60	80	100	150	V
Maximum RMS Voltage 最大有效反向电压	V _{RMS}	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage 最大直流阻断电压	V _{DC}	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current 最大正向平均整流电流	I _(AV)	20							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) 8.3mS单一正弦半波叠加在额定负载上的浪涌能力 (JEDEC方法)	I _{FSM}	200							A
Peak Forward Voltage at 10.0A DC(Note1) 在10A下的正向峰值电压(备注1)	V _F	0.55		0.70		0.85		0.95	V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C 在额定直流电压下的最大反向直流电流	I _R	1.0							mA
Typical Junction Capacitance (Note2) 典型的结电容 (备注2)	C _J	600							
Typical Thermal Resistance Junction to Case 结到壳的典型热阻值	R _{θJC}	2.0							°C/W
Junction Temperature Range 结温工作范围	T _J	-55to+150							°C
Storage Temperature Range 储存温度范围	T _{STG}	-55to+150							°C

Notes: 1. 300us pulse width, 2% duty cycle. 300uS. 脉宽、2%工作周期。

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC. 在 1.0MHz 下和反向电压为 4.0V DC下测试。

3. The typical data above is for reference only. 典型值仅供参考。

Fig. 1 - Forward Current Derating Curve

图1 正向电流降额曲线

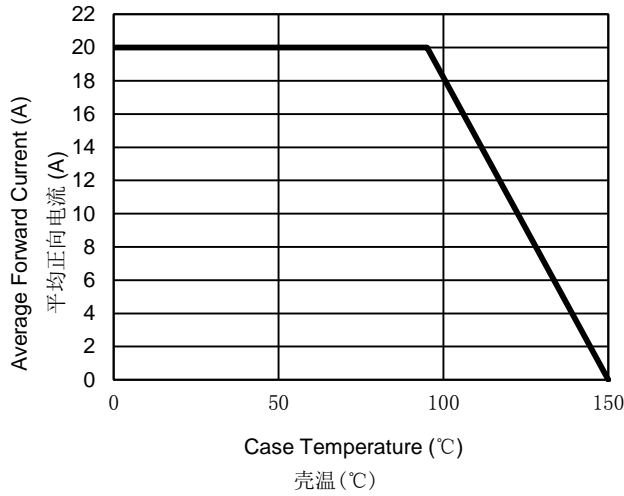


Fig. 2 - Maximum Non-Repetitive Surge Current

图2 最大不重复正向浪涌曲线

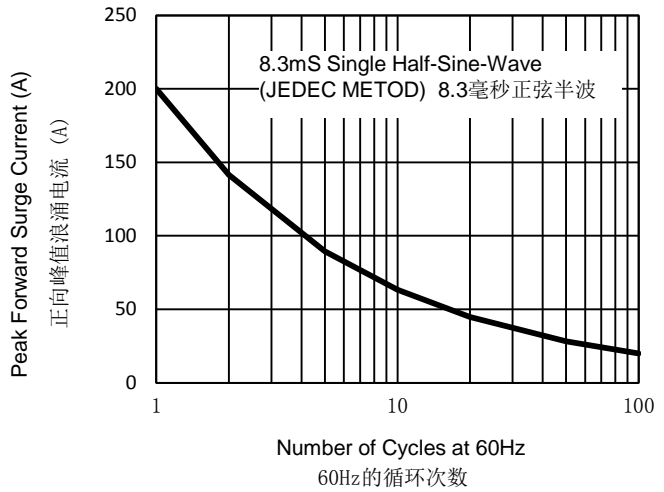


Fig. 3 - Typical Reverse Characteristics

图3 典型的反向特性

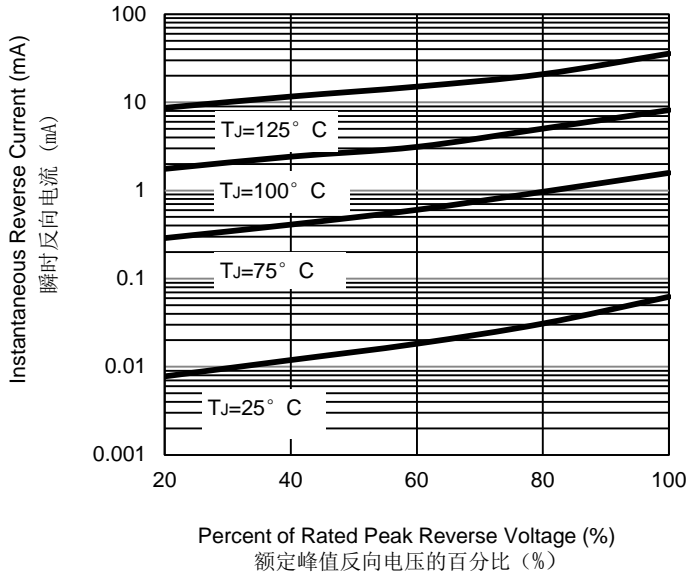


Fig. 4 - Typical Forward Characteristics

图4 典型的正向特性

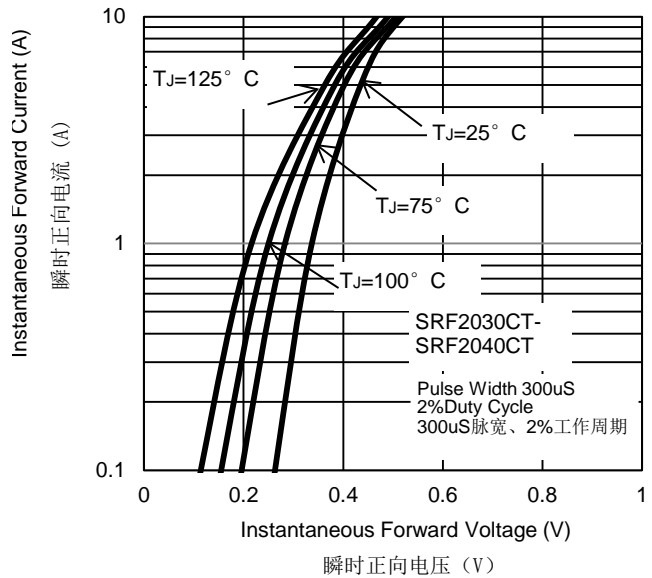


Fig. 5 - Typical Forward Characteristics

图5 典型的正向特性

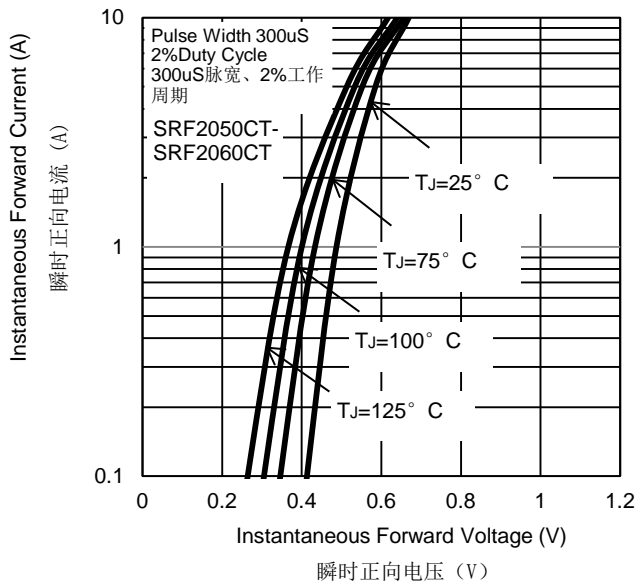
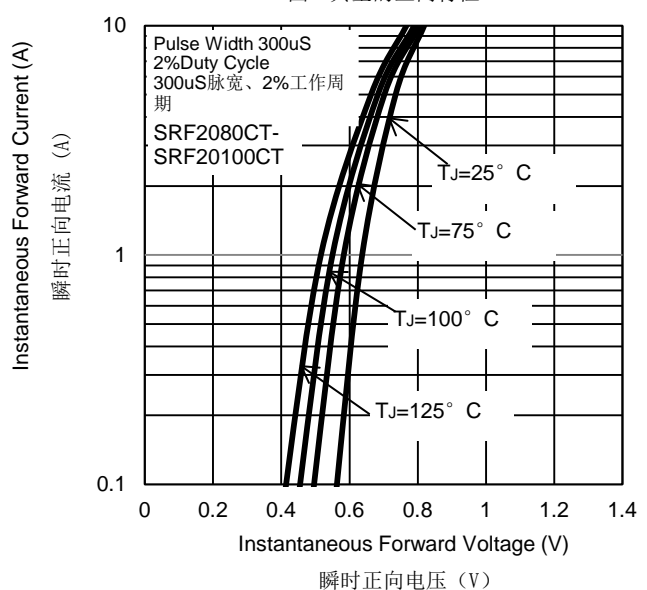


Fig. 6 - Typical Forward Characteristics

图6 典型的正向特性



The curve above is for reference only. 曲线图仅供参考。

Fig. 7 - Typical Forward Characteristics

图7 典型的正向特性

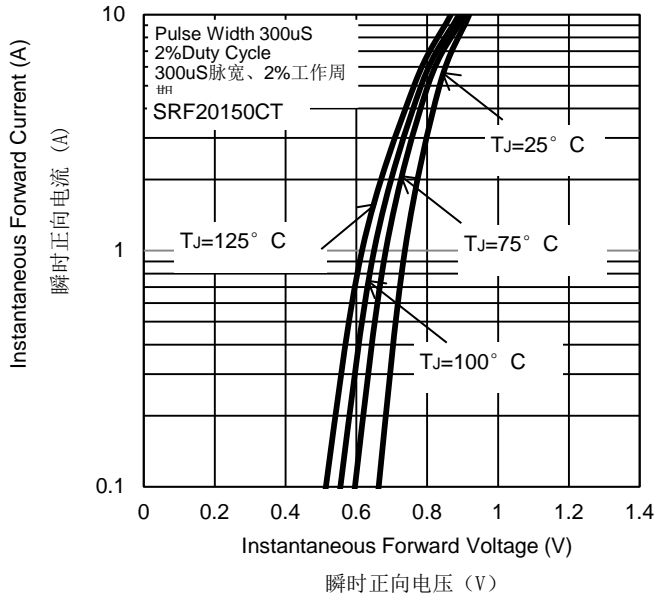
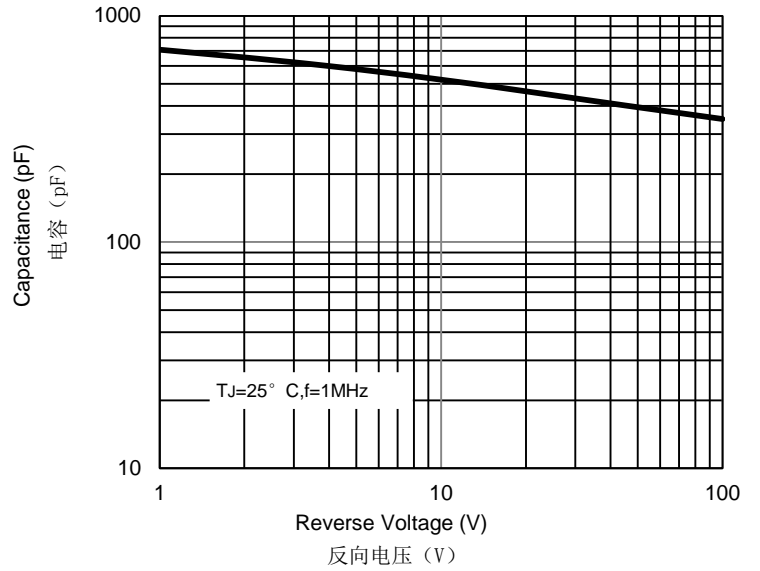


Fig. 8 - Typical Junction Capacitance

图8 典型的结电容





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