



High Efficiency Glass Passivated Rectifiers
高效玻璃钝化整流管

Reverse Voltage - 50 to 600 Volts
反向电压 50-600V
Forward Current - 16.0 Ampere
正向电流 16.0 A

Features 特征

- Low switching noise 低开关噪声
- Low thermal resistance 低热阻
- Low forward voltage drop 正向压降低
- High current capability 通电能力强
- High fast switching capability 超快切换时间
- High surge capacity 浪涌能力强

Mechanical Data 外观信息

- Case: JEDEC ITO-220AC Molded plastic
 本体: JEDEC ITO-220AC塑封
- Polarity: Color band denotes cathode 极性: 阴极色环标识
- Mounting position: Any 安装位置: 不限

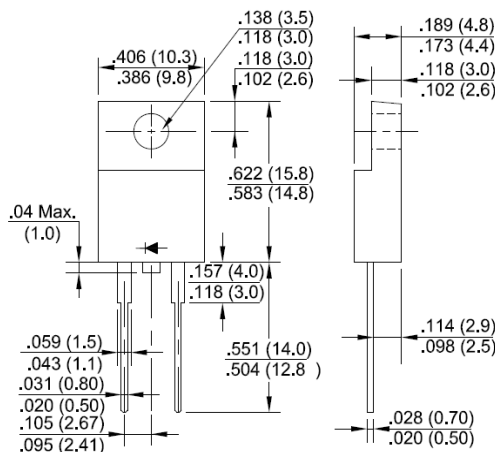
Applications 应用

- For use in SMPS, high frequency inverters, PWM and polarity protection applications
 用于开关电源, 高频变换器, 脉宽调制器和极性保护等应用

ITO220AC



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	HERF 1601	HERF 1602	HERF 1603	HERF 1604	HERF 1605	HERF 1606	Unit 单位
Maximum Repetitive Peak Reverse Voltage 最大重复峰值电压	V _{RRM}	50	100	200	300	400	600	V
Maximum RMS Voltage 最大有效反向电压	V _{RMS}	35	70	140	210	280	420	V
Maximum DC Blocking Voltage 最大直流阻断电压	V _{DC}	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current @T _A =75 °C 最大正向平均整流电流	I _O	16.0						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}	250						A
Typical Thermal Resistance Junction to Ambient 结到环境的典型热阻值	R _{θJA}	2.5						°C/W
Typical Junction Capacitance (Note1) 典型的结电容 (备注1)	C _J	80						pF
Peak Forward Voltage at 16.0 A DC 在16.0 A下的正向峰值电压	V _F	1.0			1.3		1.7	V
Maximum DC Reverse Current at Rated @T _J =25°C 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	10						μA
		150						
Maximum Reverse Recovery Time (Note 2) 最大反向恢复时间 (备注2)	T _{RR}	60						nS
Operating and Storage Temperature Range 工作和储存温度范围	T _J ,T _{STG}	-55 to + 150						°C

Notes: 1.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。

2.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A. 备注: 在I_F=0.5A,I_R=1A,I_{RR}=0.25A下量测。

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

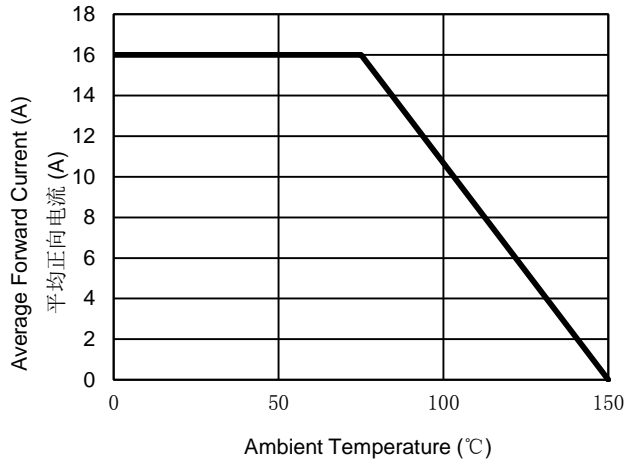


Fig. 2 - Maximum Non-Repetitive Surge Current

图2 最大不重复正向浪涌曲线

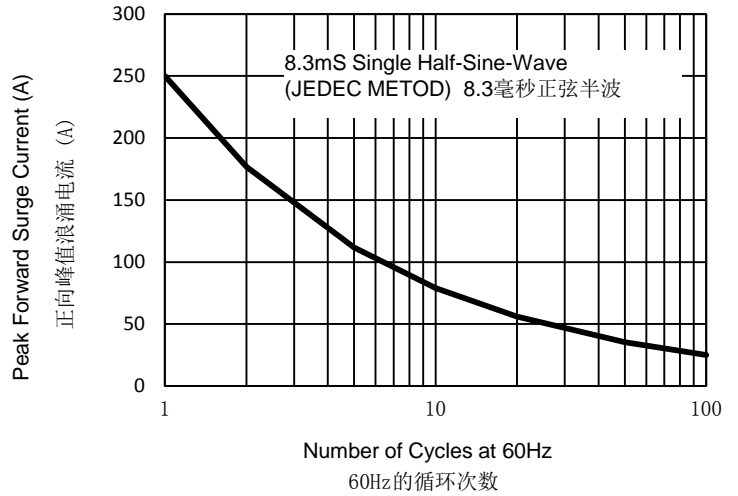


Fig. 3 - Typical Reverse Characteristics

图3 典型的反向特性

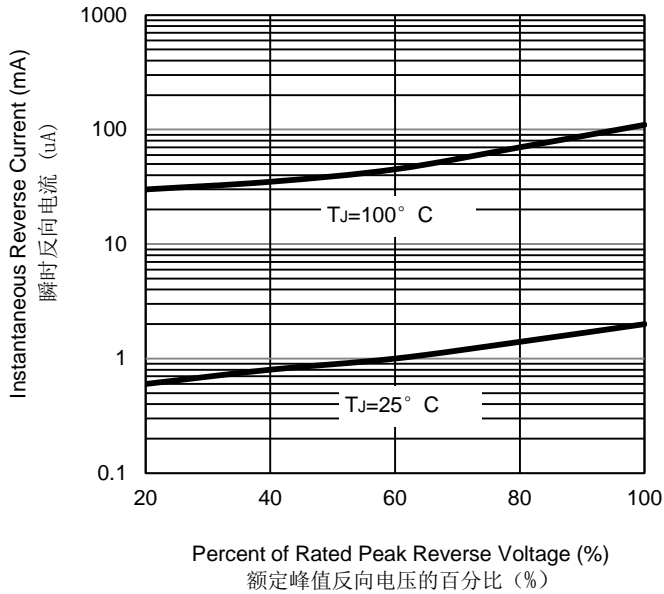


Fig. 4 - Typical Forward Characteristics

图4 典型的正向特性

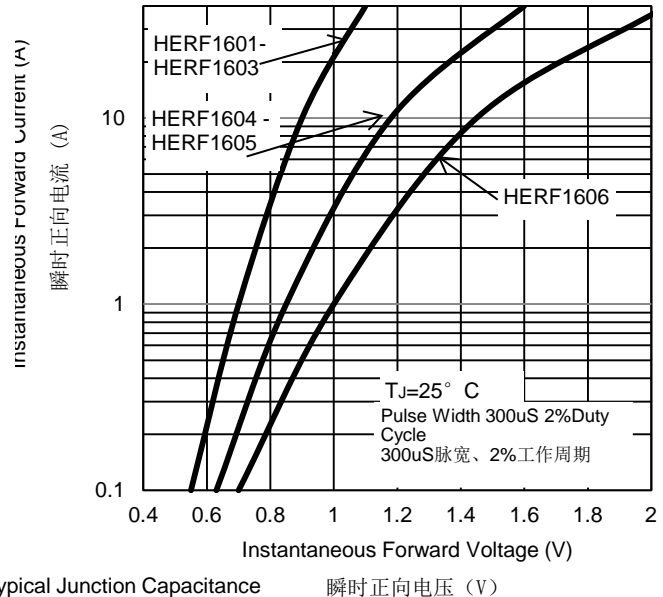
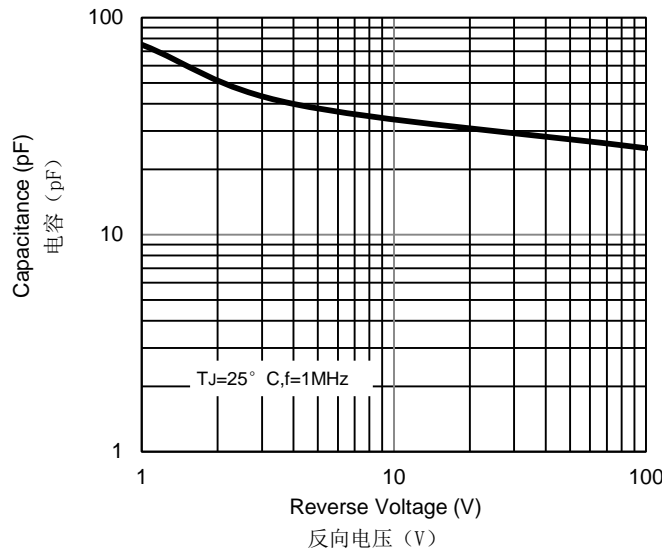


Fig. 5 - Typical Junction Capacitance

图5 典型的结电容



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



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