

HS2X / UF2X SERIES

Surface Mount High Efficiency (Ultra Fast) Glass Passivated Rectifiers

贴片式高效(超快恢复)玻璃钝化整流管

Reverse Voltage - 50 to 1000 Volts 反向电压 50-1000V Forward Current - 2.0 Ampere 正向电流 2.0 A

Features 特征

- Low cost 低成本
- Ultra fast switching for high efficiency 高效超快恢复
- Low reverse leakage current 反向漏电低
- Low forward voltage drop 正向压降低
- High current capability 通电能力强
- The plastic material carries UL recognition 94V-0 塑封材料符合UL94V-0等级

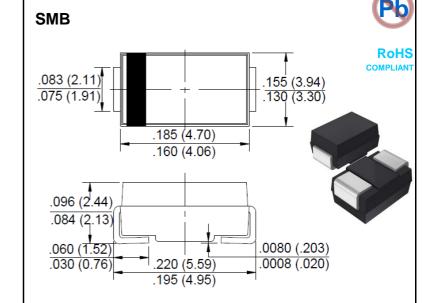
Mechanical Data 外观信息

- Case: JEDEC SMB Molded plastic
 - 本体: JEDEC SMB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



Package Outline Dimensions in Inches (Millimeters) 封装外观尺寸单位英寸(毫米)

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

Rating at 25℃ ambient temperature unless otherwise specified. 环境温度25℃,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。

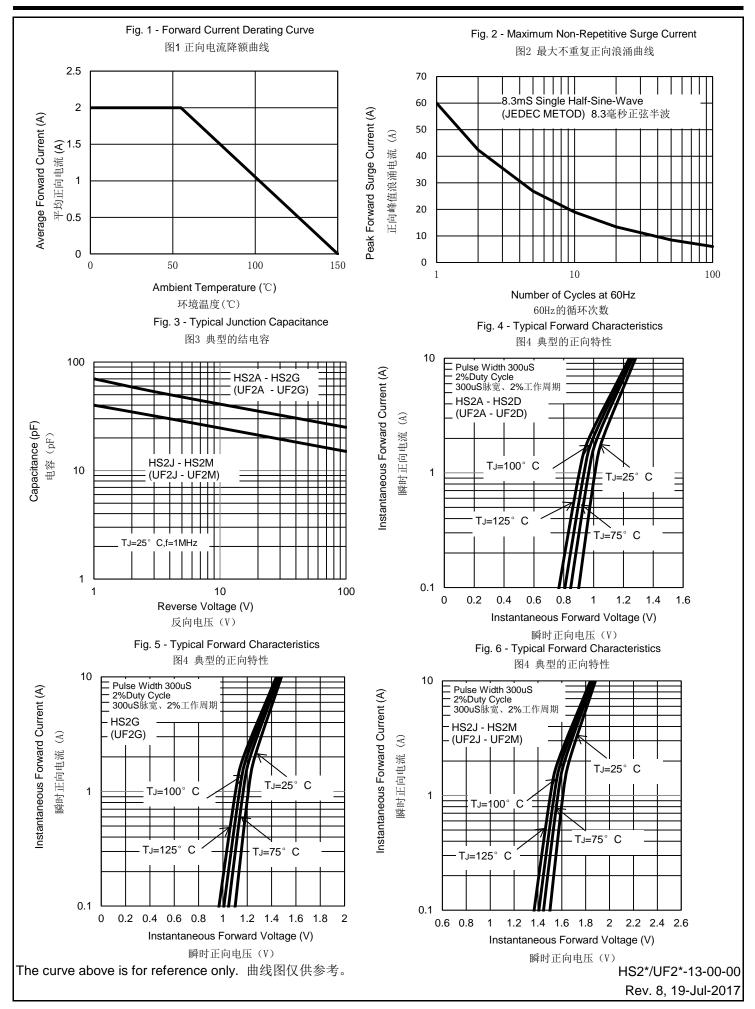
Unit	HS2M	HS2K	HS2J	HS2G	HS2D	HS2B	HS2A	Symbol	Characteristics
单位	UF2M	UF2K	UF2J	UF2G	UF2D	UF2B	UF2A	符号	特性
V	1000	800	600	400	200	100	50	Vrrm	Maximum Repetitive Peak Reverse Voltage 最大重复峰值电压
V	700	560	420	280	140	70	35	VRMS	Maximum RMS Voltage 最大有效反向电压
V	1000	800	600	400	200	100	50	VDC	Maximum DC Blocking Voltage 最大直流阻断电压
Α	2.0							I(AV)	Maximum Average Forward Rectified Current @TA=55 °C
								, ,	最大正向平均整流电流
									Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,
Α				60				IFSM	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)
V		1.7		1.3		1.0		VF	Peak Forward Voltage at 2.0 A DC 在2.0 A下的正向峰值电压
				5.0					Maximum DC Reverse Current at Rated @TJ=25℃
μΑ	100							lr	DC Blocking Voltage @TJ=100℃
				100					在额定直流电压下的最大反向直流电流
nS		75			50	5		Trr	Maximum Reverse Recovery Time (Note 1) 最大反向恢复时间(备注1)
pF		30			50	5		CJ	Typical Junction Capacitance (Note2) 典型的结电容(备注2)
°C/W				25				Рош	Typical Thermal Resistance Junction to Lead
C/ V V				20				IZOJE	结到引线的典型热阻值
$^{\circ}$	_)	-55 to +150				TJ	Operating Junction Temperature Range 结温工作范围
$^{\circ}\! \mathbb{C}$)	-55 to +150				Tstg	Storage Temperature Range 储存温度范围
					50			CJ ReJL TJ	Typical Junction Capacitance (Note2) 典型的结电容(备注2) Typical Thermal Resistance Junction to Lead 结到引线的典型热阻值 Operating Junction Temperature Range 结温工作范围

Notes:1.Measured with IF=0.5A,IR=1A,IRR=0.25A. 备注:在IF=0.5A,IR=1A,IRR=0.25A下量测。

- 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)。

HS2*/UF2*-13-00-00 Rev. 8, 19-Jul-2017







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