

RL251 THRU RL257

Plastic Silicon Rectifiers 硅整流器

Reverse Voltage - 50 to 1000Volts 反向电压 50-1000V Forward Current - 2.5 Amperes 正向电流 2.5A

Features 特征

- Low cost 低成本
- Low reverse leakage current 反向漏电流小
- Low forward voltage drop 正向压降低
- High surge capacity 耐浪涌能力高
- Meet UL flammability classification 94V-0 符合UL 94V-0阻燃等级

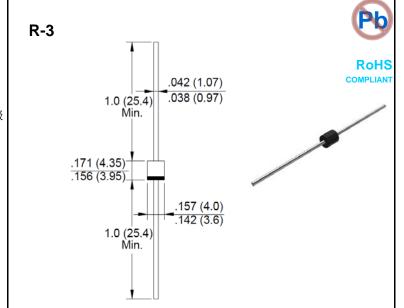
Mechanical Data 外观信息

- Case: JEDEC R-3 molded plastic 封装: R-3 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 low voltage, high frequency inverters, polarity protection applications

应用于低压, 高频变换器, 极性保护



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。

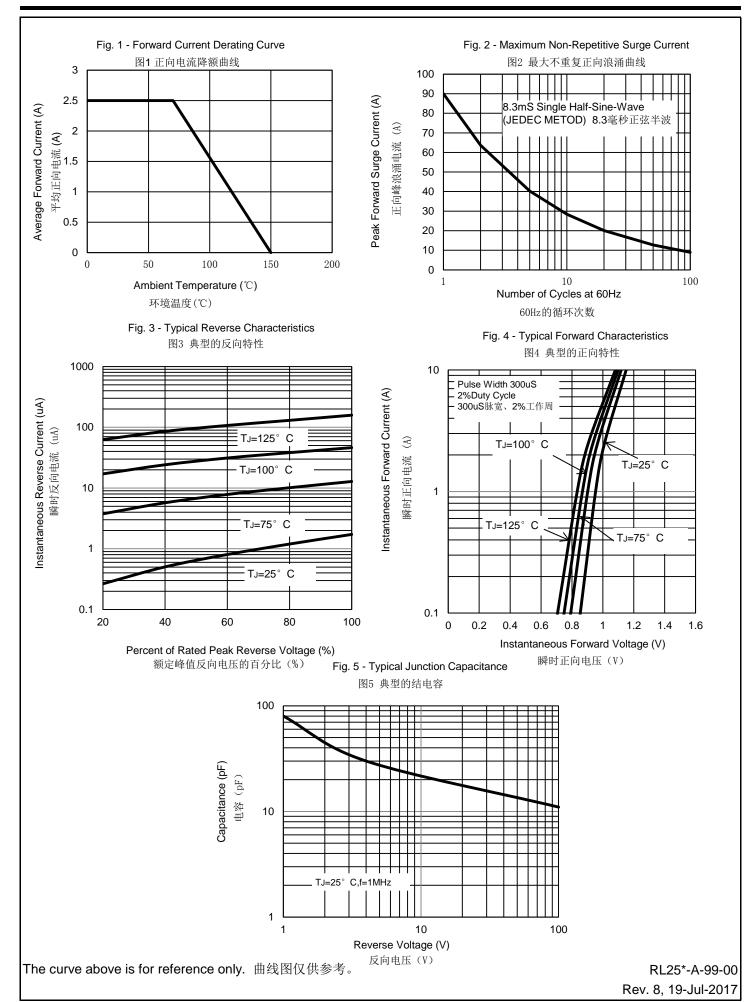
特性	Symbol 符号	RL251	RL252	RL253	RL254	RL255	RL256	RL257	Unit 单位
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
最大重复峰值反向电压									<u> </u>
Maximum RMS Voltage 最大有效反向电压	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage 最大直流阻断电压	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=70 ℃	Icaso	I _(AV) 2.5							۸
最大正向平均整流电流	I(AV)		2.3						Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,									
Superimposed on Rated Load (JEDEC Method)	IFSM	IFSM 90							Α
8.3mS单一正弦半波叠加在额定负载上的浪涌能力(JEDEC方法)									
² t Rating for Fusing (t<8.3mS) 熔断额定值 (t<8.3mS)	l ² t	33.6							A ² s
Peak Forward Voltage at 2.5A DC (Note1)	\/_	VF 1.1							V
在2.5 A 电流下的正向峰值电压(备注1)	VF	1.1							V
Maximum DC Reverse Current @TJ=25°C		5.0 IR							
at Rated DC Blocking Voltage @TJ=100℃	lR								uA
在额定直流电压下的最大反向直流电流		50							
Typical Junction Capacitance (Note 2) 典型结电容	Сл	25							pF
Typical Thermal Resistance Junction to Ambient	Dou	30							°C/W
结到环境的典型热阻值	RθJA								
Operating Junction Temperature Range 结温工作范围	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range 储存温度范围	Tstg	-55 to+150							$^{\circ}$

Notes: 1. 300uS pulse width, 2%duty cycle. 300uS脉宽, 2%占空比。

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC. 在1MHz, 4.0V条件下测试
- 3. The typical data above is for reference only . 典型值仅供参考。

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