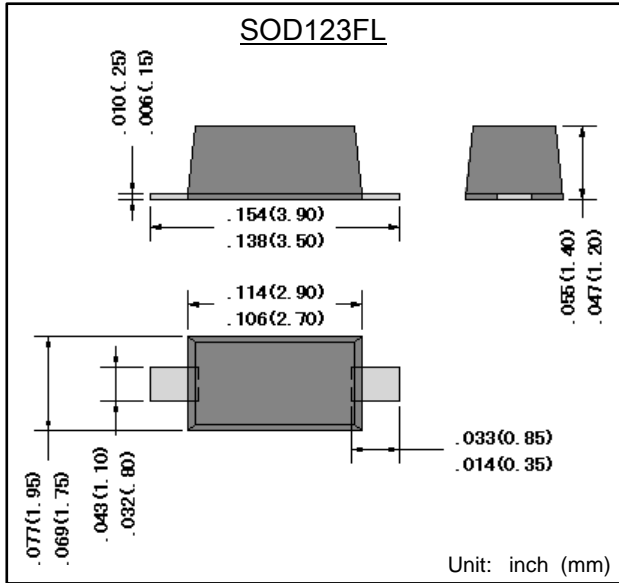


Surface Mounted Low VF Trench Schottky Barrier Rectifiers

Reverse Voltage 40 V Forward Current 3.0 A



特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力强 High forward surge capability
- 高信赖性 High reliability
- 高温焊接保证 High temperature soldering guaranteed:
260°C/10 秒
260°C/10seconds
- 引线 and 管体皆符合RoHS标准
Lead and body according with RoHS standard
- 型号后缀“-F”标记无卤素产品,本体印字加“.”
Green compound with suffix "-F", Body Marking with "."

机械数据 Mechanical Data

- 封装外形:SOD123FL 塑封 Case:SOD123FL Molded plastic
- 环氧树脂: UL易燃等级: 94V-0
Epoxy: UL 94V-0 rate flame retardant
- 引脚: 镀锡,无铅 Lead: Pure tin plated, lead free

最大值和特性 TA = 25°C 除非另有规定。

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	DSK34L	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	40	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	28	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	40	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	3.0	A
正向不重复浪涌电流 8.3 ms单一正弦半波 Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	60	A
最大正向电压 Maximum forward voltage	V_F	0.31 0.36 0.42	V
最大反向电流 @ V_{DC} Maximum reverse current	I_R	200 10	μA mA
典型热阻 Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	180 65	$^{\circ}C/W$
典型结电容 $V_R=4.0V, f=1MHz$ Type junction capacitance	C_j	350	pF
工作结温 Operating junction	T_j	-55 --- +150	$^{\circ}C$
存储温度 Storage temperature rang	TSTG	-55 --- +150	$^{\circ}C$

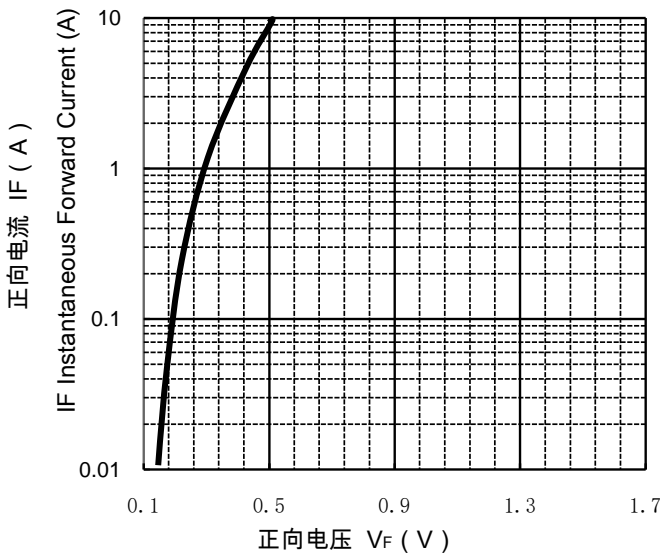
备注 Note:

- 1) 安装在PCB板上, 从PN结到周围环境的热阻。
- 1) Thermal resistance from junction to ambient, PCB mounted.

特性曲线 Characteristic Curves

正向特性曲线 (典型值)

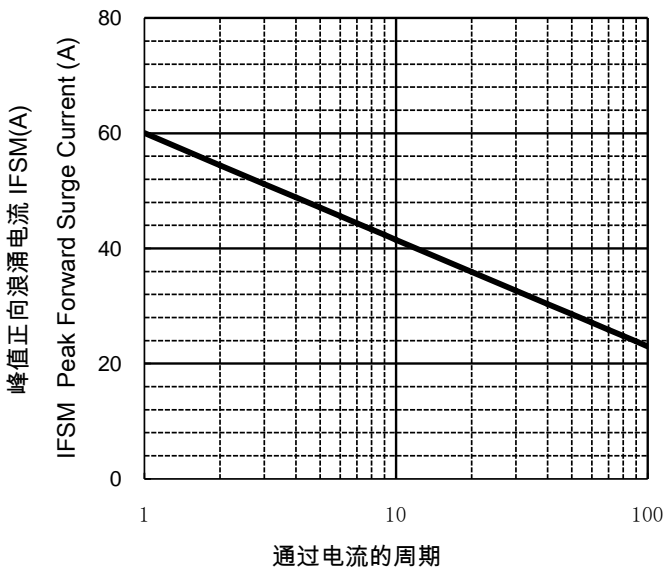
TYPICAL FORWARD CHARACTERISTIC



V_F Instantaneous Forward Voltage (V)

浪涌特性曲线 (最大值)

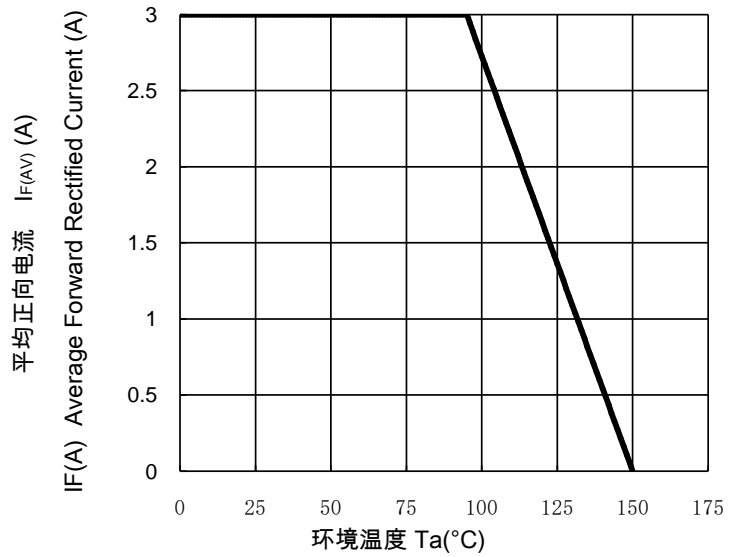
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Number of Cycles at 60 Hz.

正向电流降额曲线

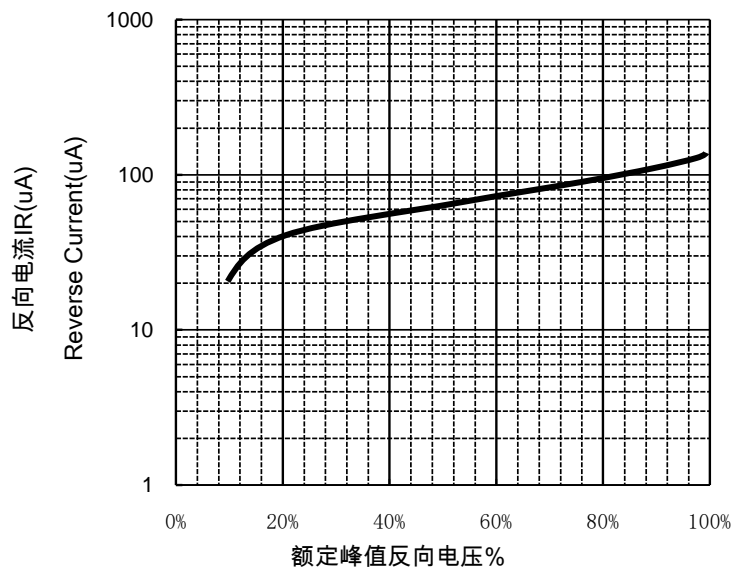
FORWARD CURRENT DERATING CURVE



T_{amb} , ambient temperature (°C)

反向特性曲线

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %

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