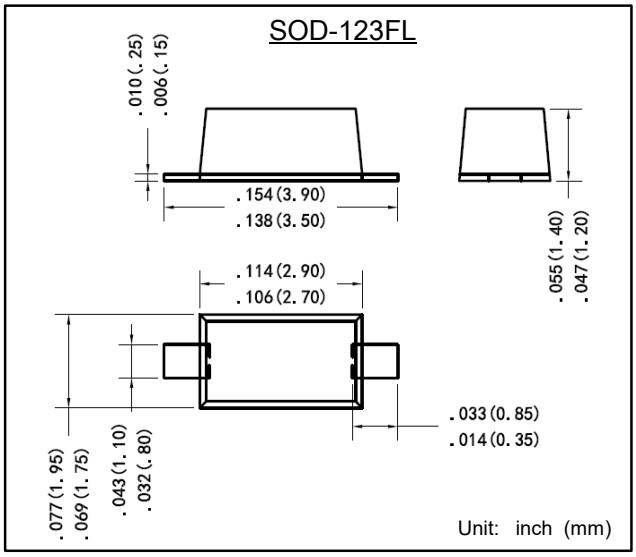
Leiditech

S-DSK12L~S-DSK110L

Surface Mounted Schottky Barrier Rectifiers



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℃/10 秒 260℃/10seconds
- 引线和管体皆符合RoHS标准
  Lead and body according with RoHS standard

机械数据 Mechanical Data

- 封装外形:SOD-123FL塑封 Case:SOD-123FL 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
- 通过IAFT-16949体系认证System: Accreditation through IATF16949 System
- 高可靠性等级（AEC Q101合格）High reliability grade (AEC Q101 qualified)

最大值和特性 TA = 25℃ 除非另有规定。
Maximum Ratings & Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	S-DSS12L	S-DSS13L	S-DSS14L	S-DSS15L	S-DSS16L	S-DSS17L	S-DSS18L	S-DSS19L	S-DSS110L	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	1.0									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}	30									A
最大正向电压 @IF=1.0A Maximum forward voltage	V_F	0.47			0.55		0.75				V
最大反向电流 @V DC TA= 25 ℃ Maximum reverse current TA= 100℃	I_R	0.5 50									mA
典型热阻 Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	180 55									℃/W
典型结电容 VR=4.0V,f=1MHz Type junction capacitance	C_J	55									pF
工作结温 Operating junction	T_J	-55 --- +125					-55 --- +150				℃
存储温度 Storage temperature rang	T_{STG}	-55 --- +150									℃

备注 Note:

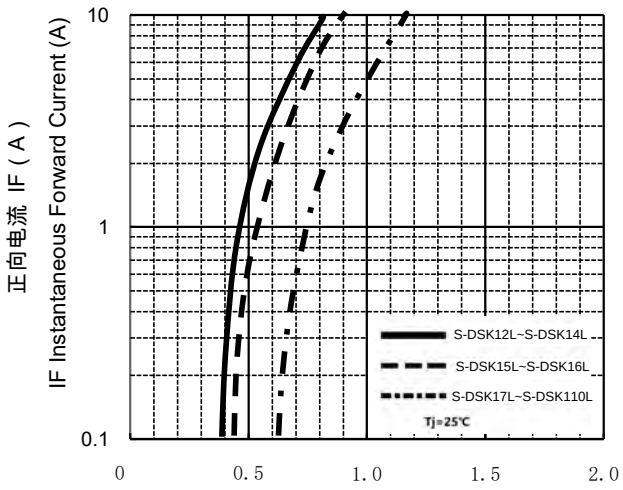
1) 安装在PCB板上，从PN结到周围环境的热阻。

1) Thermal resistance from junction to ambient , PCB mounted.

特性曲线 Characteristic Curves

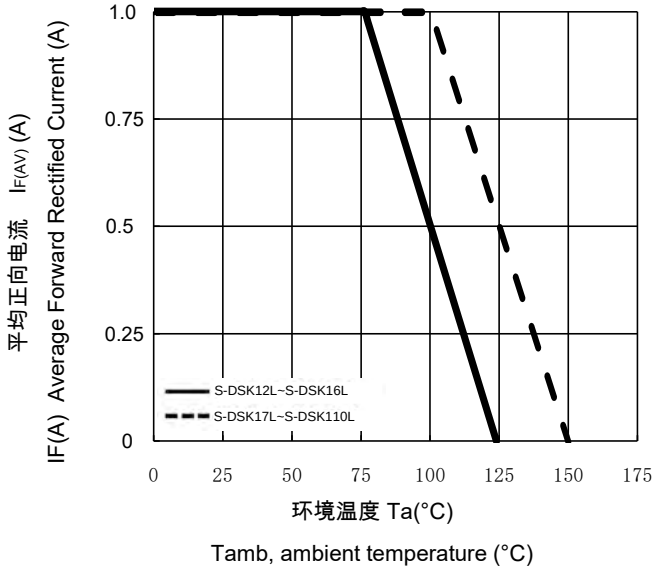
正向特性曲线（典型值）

TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线

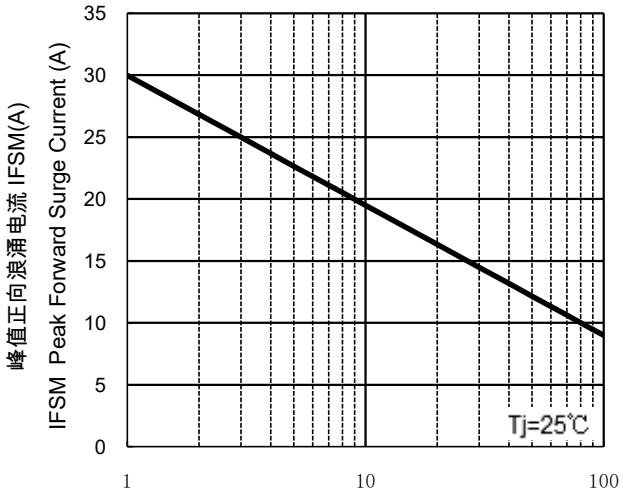
FORWARD CURRENT DERATING CURVE



浪涌特性曲线（最大值）

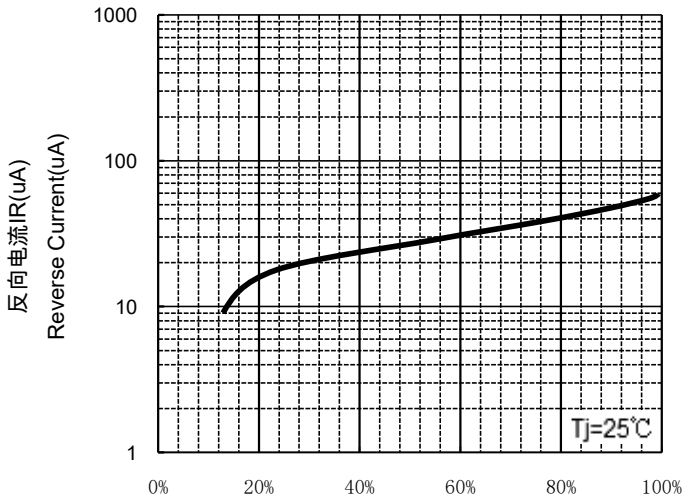
MAXIMUM NON REPETITIVE

PEAK FORWARD SURGE CURRENT



反向特性曲线

Typical Reverse Characteristics



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