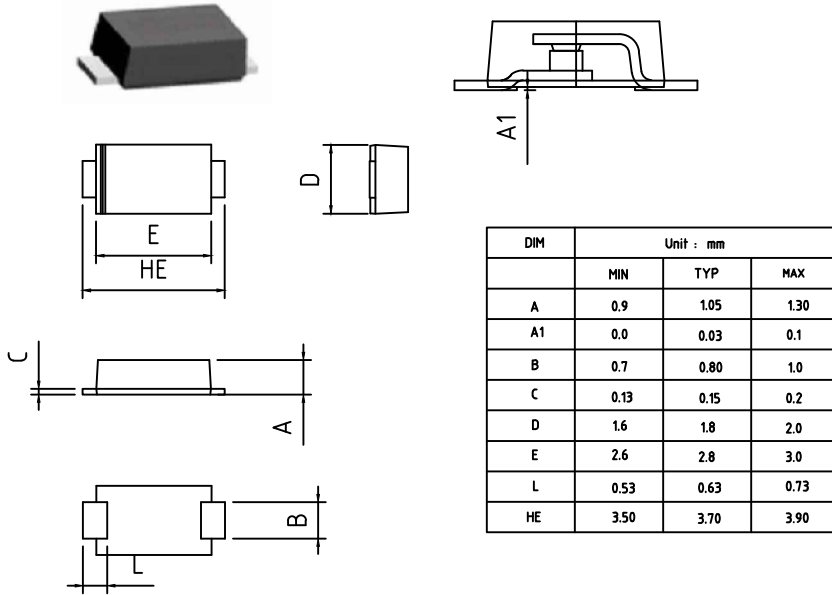


DSK12 THRU DSK110

Surface Mount Schottky Rectifier

表面安装肖特基整流管

■ 外型尺寸和标记 Outline Dimensions and Mark



■ 特性 Features

- 超薄的封装
Low-profile package
- 适合于自动化放置
Ideal for automated placement
- 超速的反向恢复时间
Ultrafast reverse recovery time
- 低损耗效率高
Low power loss, high efficiency
- 低正向电压降
Low forward voltage drop
- 高过载能力
High surge capability
- 高温焊接 终端260 °C /10秒
High temperature soldering 260 °C /10seconds at terminals

■ 机械数据 Mechanical Data

- 符合JEDEC SOD123FL的塑封本体和钝化芯片的封装
Cose:JEDEC SOD-123FL molded Plastic body over passivated chip
- 终端:镀锡焊符合 J-STD-002B and JESD22-B102D
Terminals:solder plated solderable per J-STD-002B and JESD22-B102D
- 极性:激光带标记端为负极
Polarity:Laser band denotes cathode end

最大额定参数及热特性和电特性 Maximum Ratings & Thermal Characteristics and Electrical Characteristics

在25 °C 环境温度下评级,除非另有说明。 Rating at 25 °C ambient temperature unless otherwise specified

型号 Type Number	符号 Symbol	DSK12	DSK13	DSK14	DSK15	DSK16	DSK18	DSK110	单位 Units
最大重复峰值反向电压 Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
最大电压有效值 Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
最大直流阻断电压 Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
最大平均整流输出电流 Maximum Average Forward Rectified 在 @T ₁ =110℃的条件下 Current@ T ₁ =110℃	$I_{F(AV)}$	1.0							A
峰值正向冲击电流8.3毫秒 Peak Forward surge Current,8.3 ms singe 在额定的半弦波叠加条件下 Half Sine-wave superimposed on Rated 负载符合(JEDEC方法) Load (JEDEC method)	I_{FSM}	25.0							A
最大瞬时正向电压@ 1.0A Maximum Lnstantaneous Forward Voltage @1.0A	V_F	0.55			0.70		0.85		V
最大直流反向电流@T _A =25℃ Maximum DC Reverse @ T _A =25℃	I_R	10							mA
额定电流阻断电压@ T _A =25℃ at Rated DC Blocking Voltage @ T _A =100℃		5							
典型的结电容(注1) Typical Junction Capacitance at 4.0V,1MHz	C_J	110							pF
操作温度范围 Operating Temperature Range	T _J	-65 to +125							℃
存储温度范围 Storage Temperature Range	T _{stg}	-65 to +125							℃

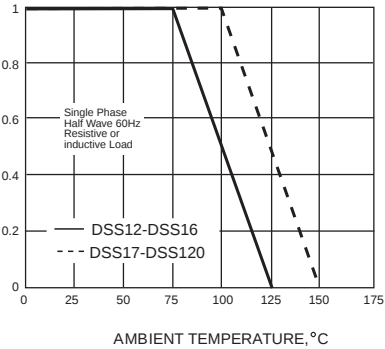
DSK12 THRU DSK110

Surface Mount Schottky Rectifier

表面安装肖特基整流管

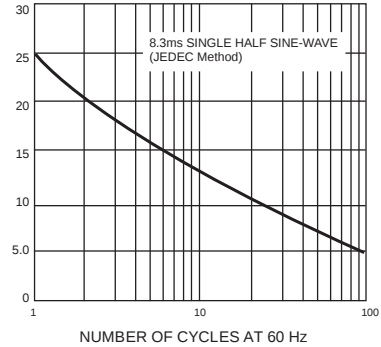
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



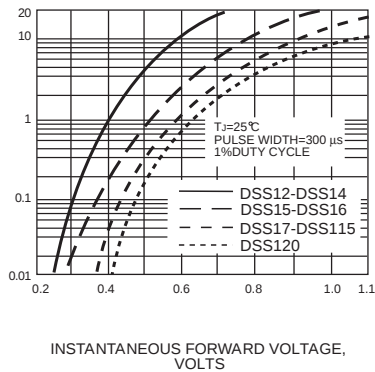
PEAK FORWARD SURGE CURRENT,
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



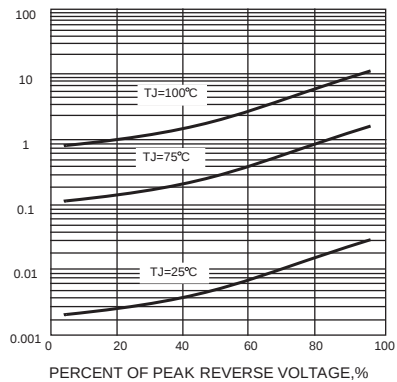
INSTANTANEOUS FORWARD
CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE

