



K12 THRU K110

Surface Mount Schottky Rectifier

表面安装肖特基整流管

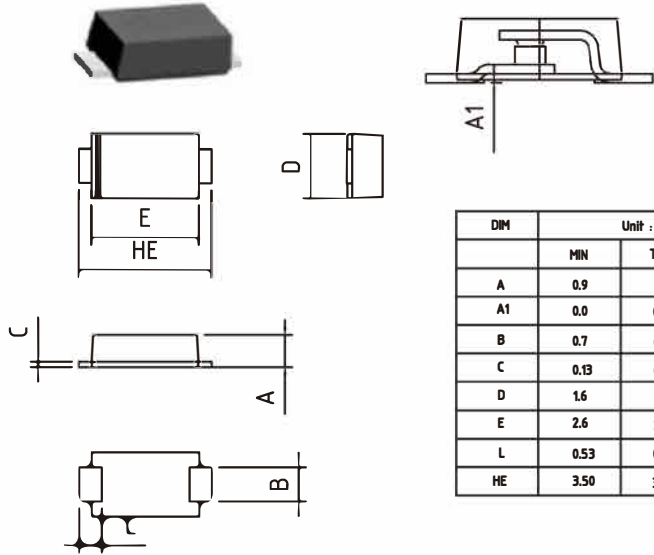
特性 Features

- 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
Case: 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

外型尺寸和标记 Outline Dimensions and Mark



DIM	Unit : mm		
	MIN	TYP	MAX
A	0.9	1.05	1.30
A1	0.0	0.03	0.1
B	0.7	0.80	1.0
C	0.13	0.15	0.2
D	1.6	1.8	2.0
E	2.6	2.8	3.0
L	0.53	0.63	0.73
HE	3.50	3.70	3.90

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

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

型号 Type Number	符号 Symbol	K12	K13	K14	K15	K16	K18	K110	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 @ $T_1=110^{\circ}C$ 的条件下 Current @ $T_1=110^{\circ}C$	$I_{F(AV)}$	1.0							A
峰值正向冲击电流8.3毫秒 Peak Forward surge Current, 8.3 ms single 在额定的半正弦波叠加条件下 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 Instantaneous Forward Voltage @1.0A	V_F	0.55		0.70		0.85		V	
最大直流反向电流@ $T_A=25^{\circ}C$ Maximum DC Reverse @ $T_A=25^{\circ}C$	I_R	10							mA
额定电流阻断电压@ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=100^{\circ}C$		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							$^{\circ}C$
存储温度范围 Storage Temperature Range	T_{stg}	-65 to +125							$^{\circ}C$



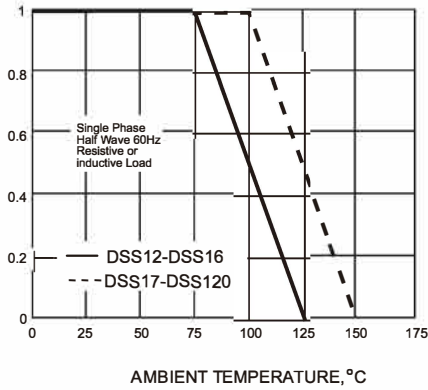
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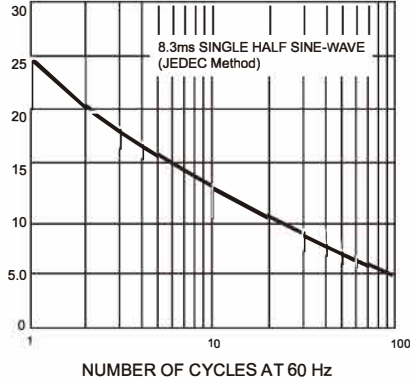
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



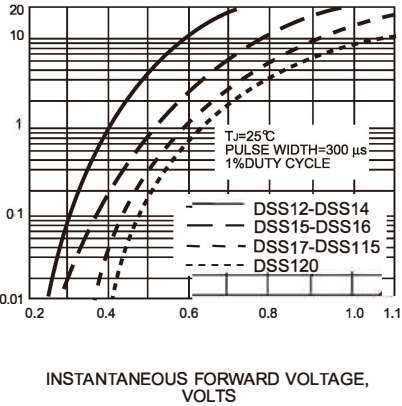
PEAK FORWARD SURGE CURRENT, AMPERES

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



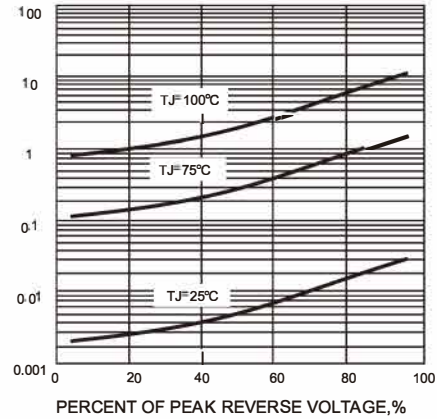
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



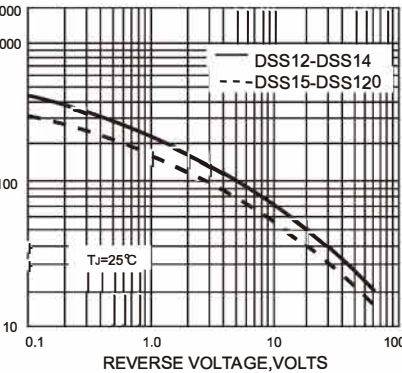
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



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