

/ Revised record

/ Descriptions

SMA

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 20~60V, Forward Current: 1.0A ,SMA package.

/ Features

Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications,For surface mounted applications, HF product.

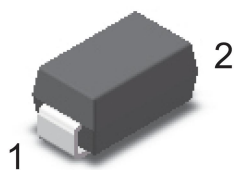
/ Applications

General purpose.

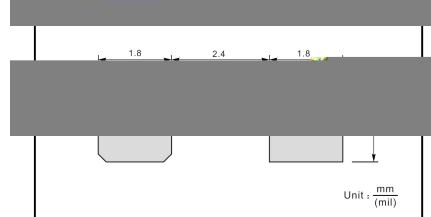
/ Equivalent Circuit



/ Pinning



The recommended mounting pad size



/ Marking

See Marking Instructions.



/ Absolute Maximum Ratings(Ta=25)

参数 Parameter	符号 Symbol	数值 Rating			单位 Unit
		SSL12	SSL14	SSL16	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	V
Maximum RMS voltage	V_{RMS}	14	28	42	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	V
Maximum Average Forward Rectified Current	$I_F(AV)$	1.0			A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30			A
Typical Junction Capacitance ¹⁾	C_i	180		80	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	85			°C/W
Operating Junction Temperature Range	T_j	-55~+125			°C
Storage Temperature Range	T_{stg}	-55~+150			°C

Note:

- 1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating			单位 Unit
			SSL12	SSL14	SSL16	
Max Instantaneous Forward Voltage	V _F	I _F =1.0A	0.45		0.50	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25	0.3	0.2		mA
		T _a =100	10	5		



/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

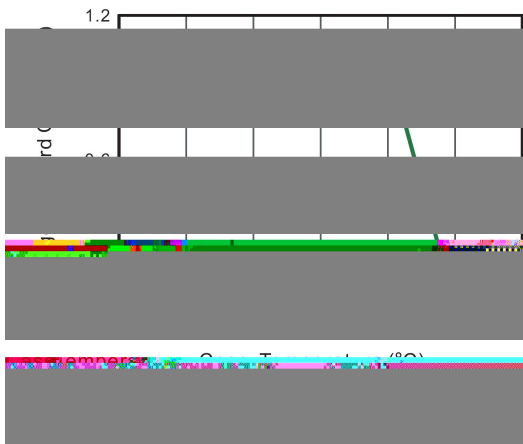


Fig.2 Typical Reverse Characteristics

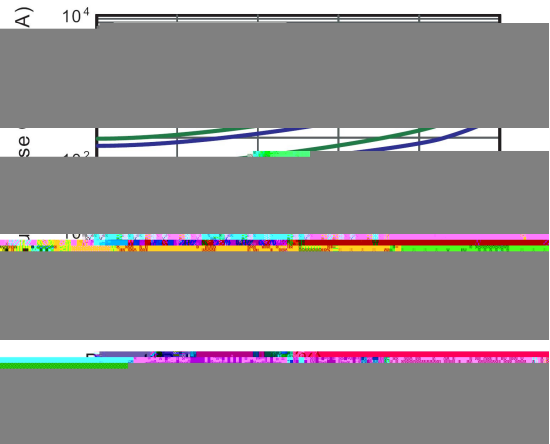


Fig.3 Typical Forward Characteristics

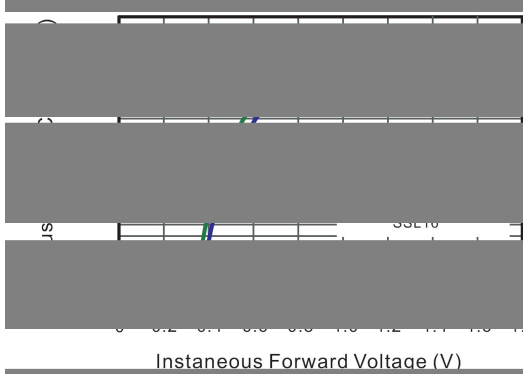


Fig.4 Typical Junction Capacitance

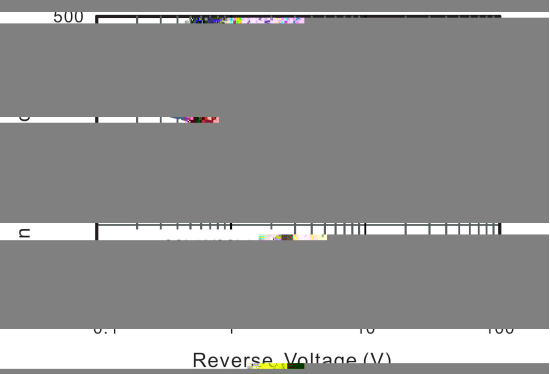
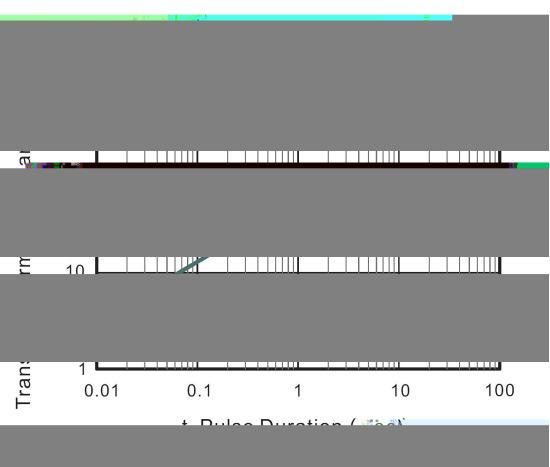
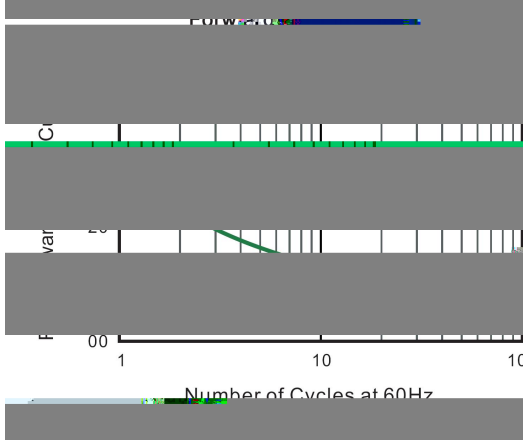
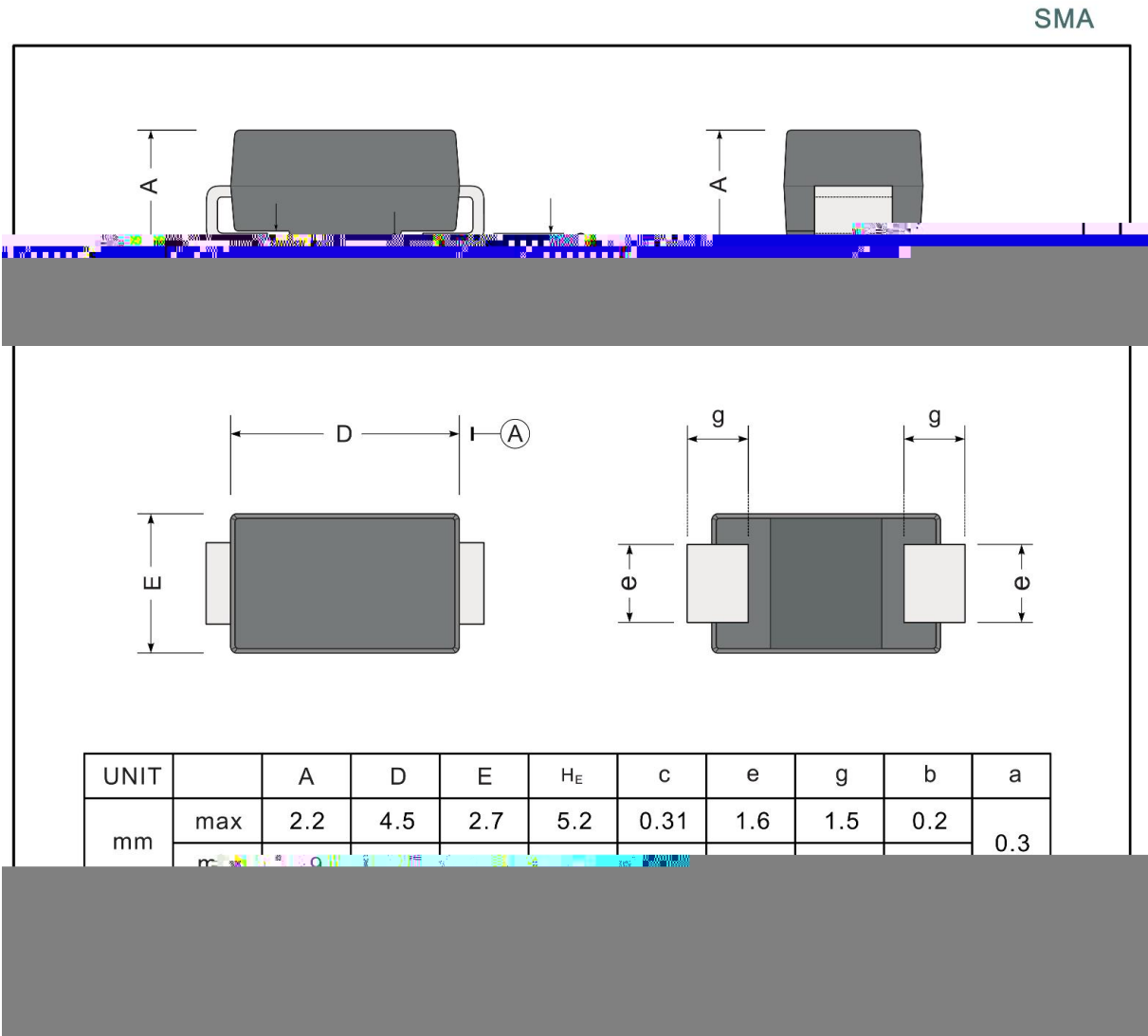


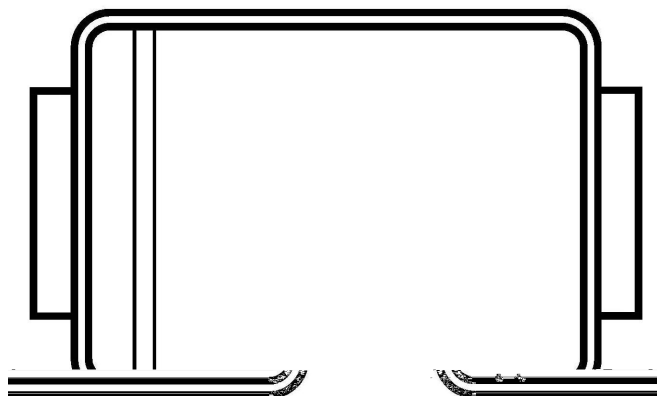
Fig.5 Me



/ Package Dimensions



/ Marking Instructions



说明：

SSL12：为型号代码

****：为生产批号追溯码，第1个*为年月代码，后面3个*为当月小批号代码

Note:

SSL12：Product Type Code

****：Lot No. Code ,The 1st * means:YM Code ,The last 3 * means:little Lot No Code



() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1 150 180 60 90sec;
- 2 245±5 5±0.5sec;
- 3 2 10°C/sec.

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.