/ Revised record

SSL12~SSL16

Rev.A Jun.-2021

DATA SHEET

/ Descriptions

SMA

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

/ Features

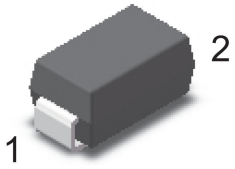
Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications,For surface mounted applications, HF product.

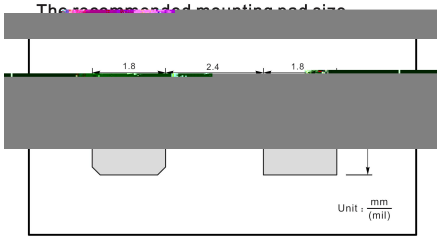
/ Applications

General purpose.

/ Equivalent Circuit

/ Pinning





/ 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_j	180		80	pF
Typical Thermal Resistance[2)]	$R_{\theta JA}$	85			℃/W
Operating Junction Temperature Range	T_j	-55~+125			℃
Storage Temperature Range	T_{stg}	-55~+150			℃

Note:

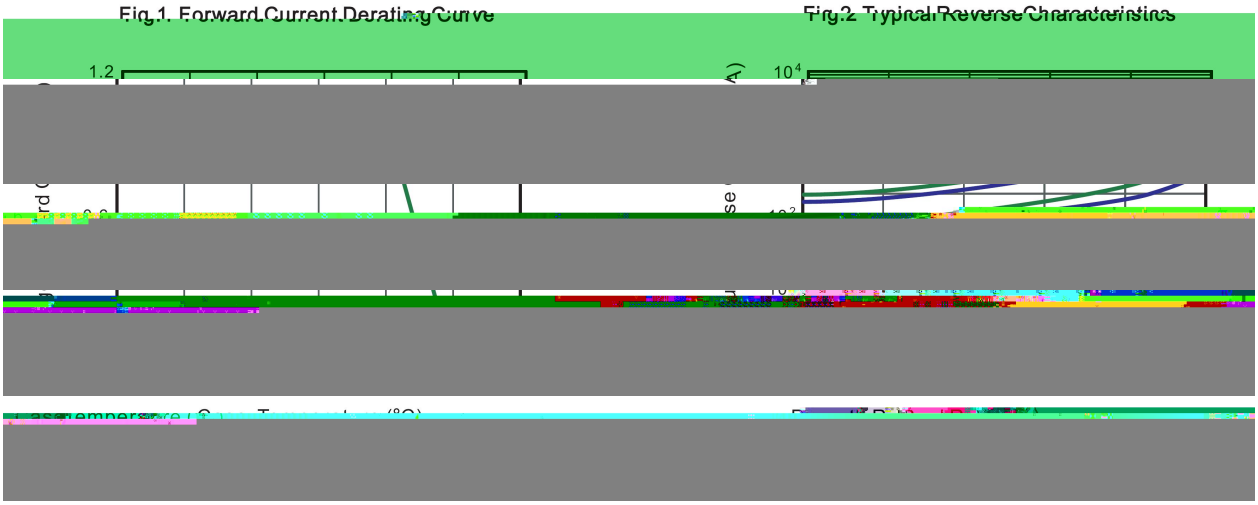
1） Measured at 1 MHz and applied reverse voltage of 4 V D.C

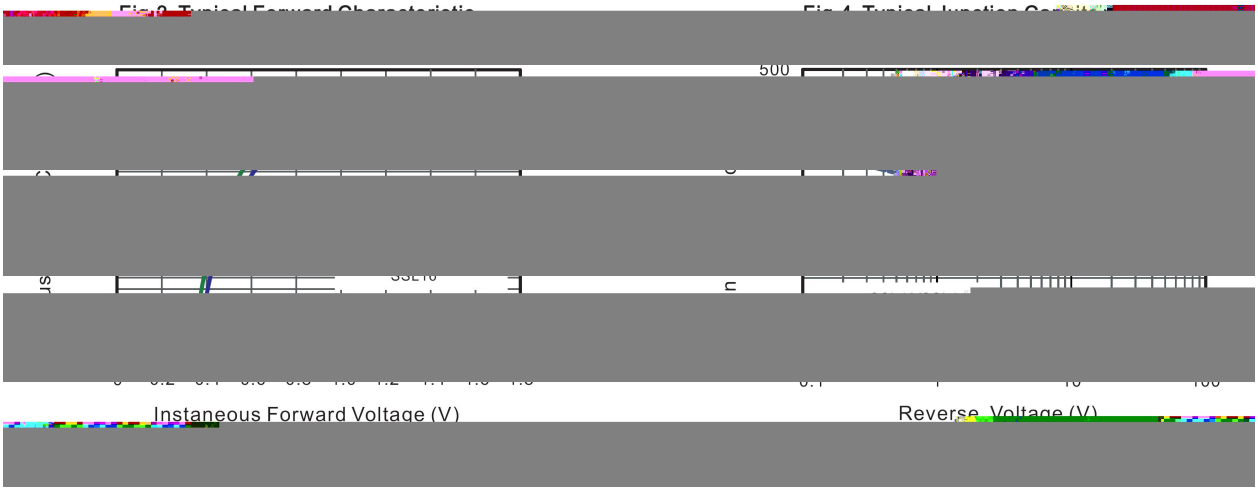
2） P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

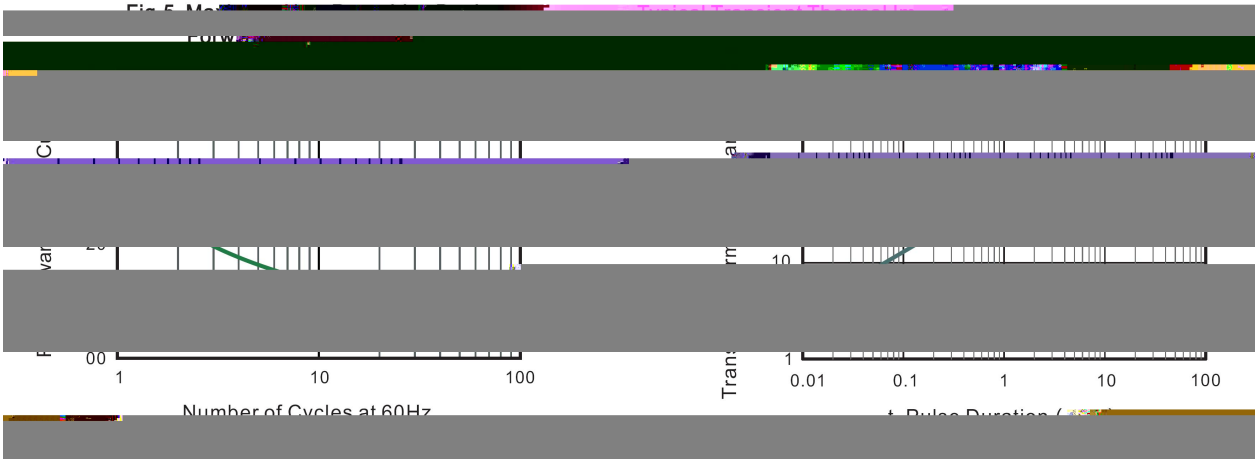
/ Electrical Characteristics(Ta=25)

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

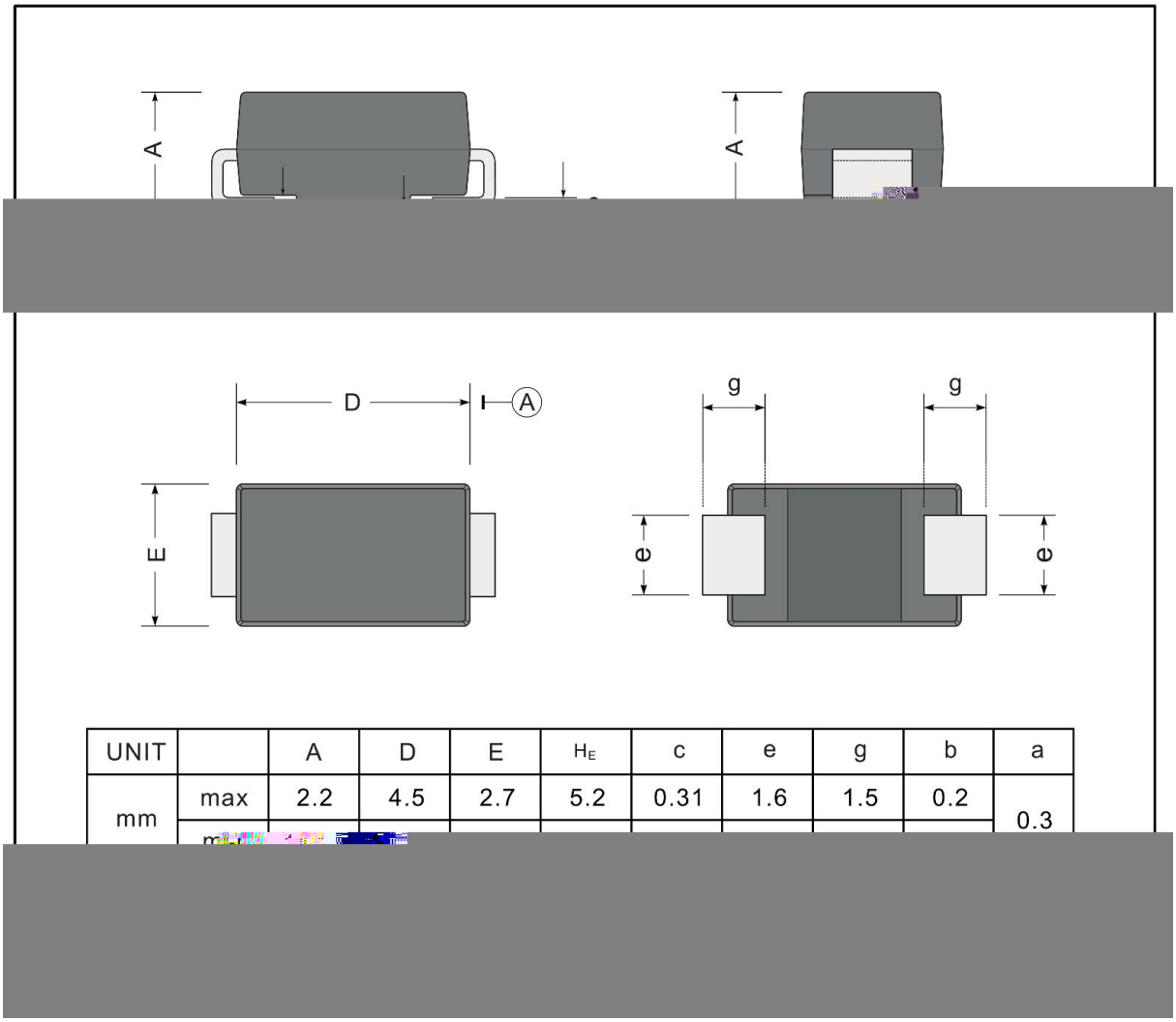






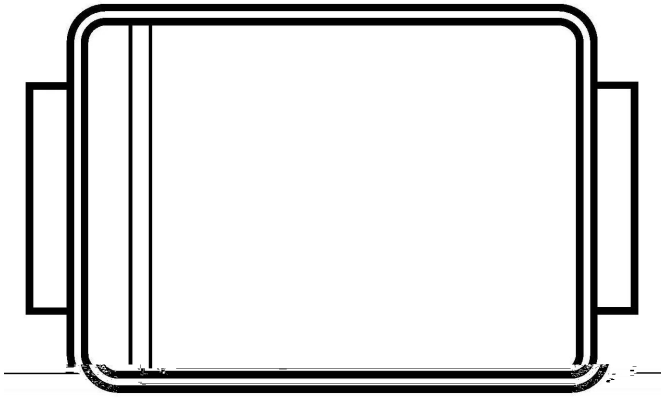
/ Package Dimensions

SMA



UNIT		A	D	E	H_E	c	e	g	b	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.2	0.3
	min									

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

/ Resistg r □