

Descriptions

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 40 to 60 V, Forward Current:5.0A ,SMAF thin package.

Features

- Low power loss
- high efficiency
- High forward surge current capability
- For use in low voltage
- high frequency inverters
- polarity protection applications
- surface mounted applications
- Halogen free product

Applications

General purpose.

Equivalent Circuit & Pinning



hFE Classifications & Marking

See Marking Instructions.

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating		Unit
		SSL54F	SSL56F	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	60	V
Maximum RMS voltage	V_{RMS}	28	42	V
Maximum DC Blocking Voltage	V_{DC}	40	60	V
Maximum Average Forward Rectified Current	$I_F (AV)$	5.0		A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150		A
Typical Junction Capacitance ¹⁾	C_i	800	500	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	45		°C/W
Operating Junction Temperature Range	T_j	-55~125		°C
Storage Temperature Range	T_{stg}	-55~150		°C

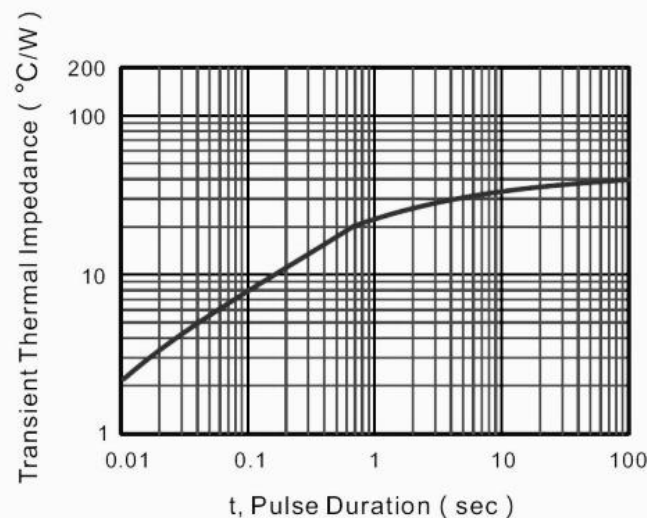
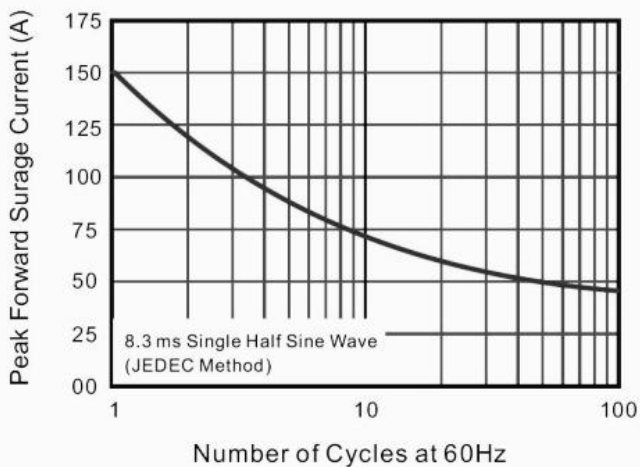
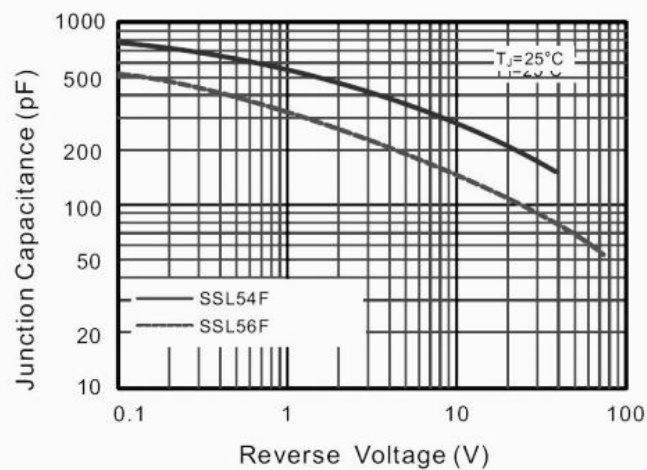
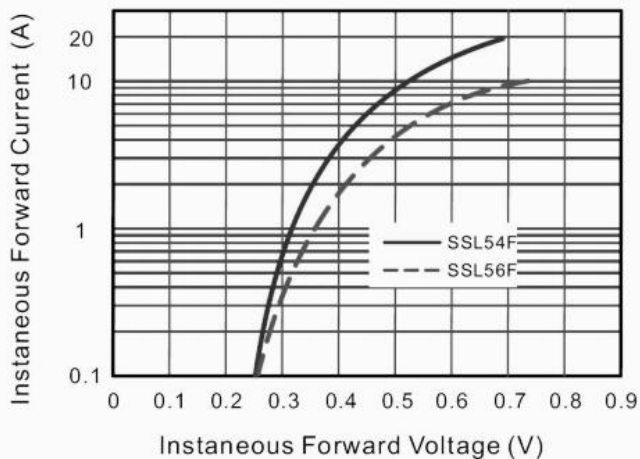
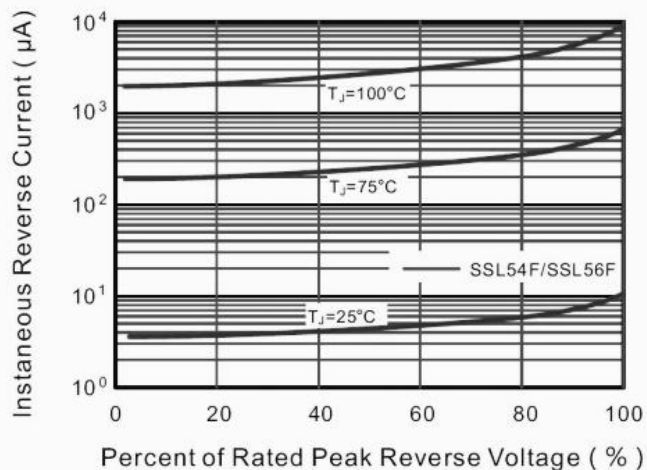
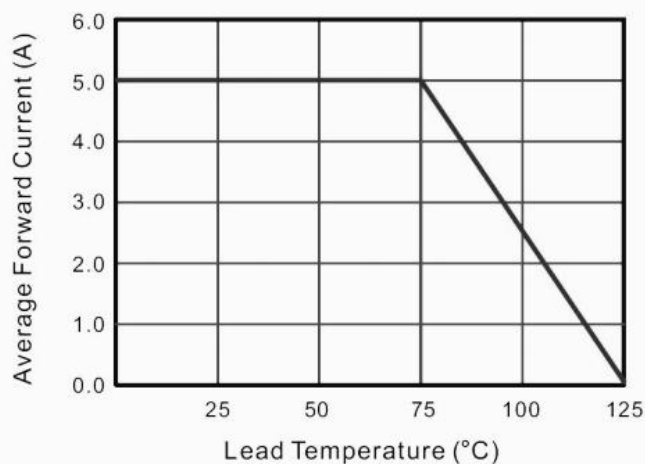
Note:

- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
 2) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating		Unit
			SSL54F	SSL56F	
Max Instantaneous Forward Voltage	V _F	I _F =5.0A	0.45	0.55	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I _R	T _a =25℃	1.0		mA
		T _a =100℃	5.0		

Electrical Characteristic Curve



Marking Instructions



Note:
SSL54: Product Type Code
**** : Lot No. Code , The 1st * means:YM Code
The last 3 * means:little Lot No Code

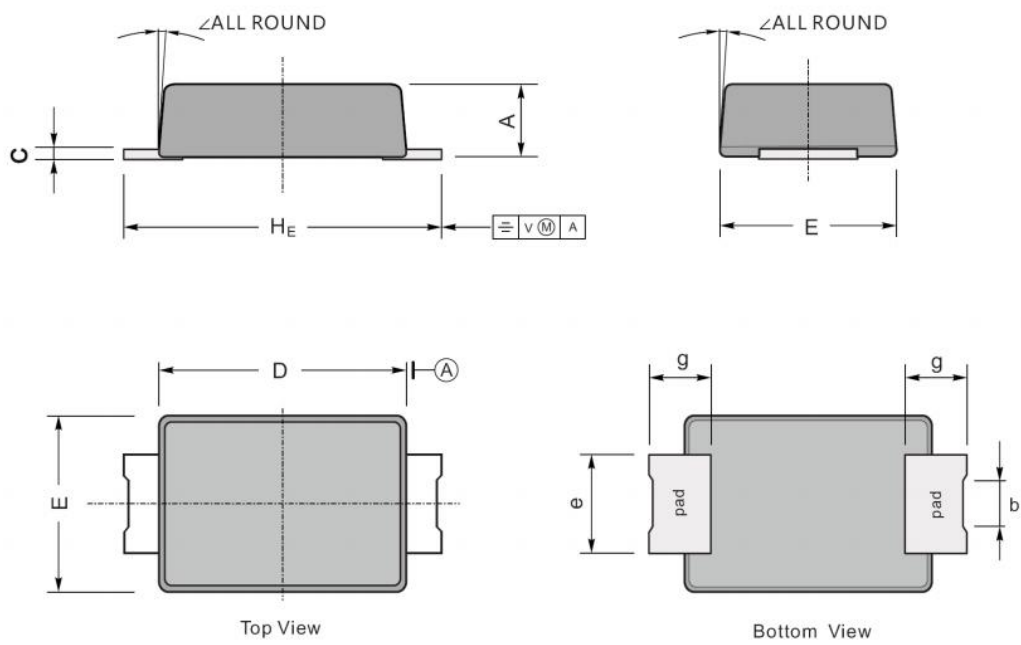
Marking

Type number	Marking code
SSL54F	SSL54
SSL56F	SSL56

Packaging SPEC

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMAF	3000	5	15000	5	75000	7" ×11	185X180X105	550X220X210

Package Outline Dimensions



UNIT		A	C	D	E	e	g	HE	b	∠
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	1.05	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	0.65	
mil	max	47	7.9	146	106	63	47	193	41	
	min	35	4.7	130	94	51	31	173	26	