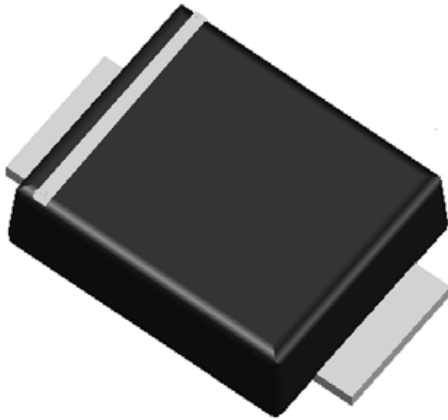


## Surface Mount Schottky Rectifier

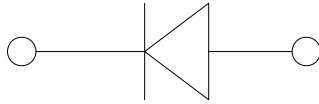


### Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low VF
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

For use in low voltage high frequency inverters, freewheeling, C/DC converters, and polarity protection applications.



### Mechanical Data

- **Package:** SMBF  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SSL34BF	SSL345BF	SSL36BF	SSL310BF
Device marking code			SSL34BF	SSL345BF	SSL36BF	SSL310BF
Repetitive peak reverse voltage	V <sub>R</sub> RM	V	40	45	60	100
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I <sub>O</sub>	A	3.0			
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Ta=25°C	I <sub>FSM</sub>	A	60			
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150			
Junction temperature	T <sub>j</sub>	°C	-55 ~+150			

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SSL34BF	SSL345BF	SSL36BF	SSL310BF
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =3.0A	0.45		0.50	0.60
Maximum DC reverse current at rated DC blocking voltage per diode @ V <sub>RM</sub> =V <sub>RRM</sub>	I <sub>RRM</sub>	mA	Ta=25°C	0.5			0.1
			Ta=100°C	10			5

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



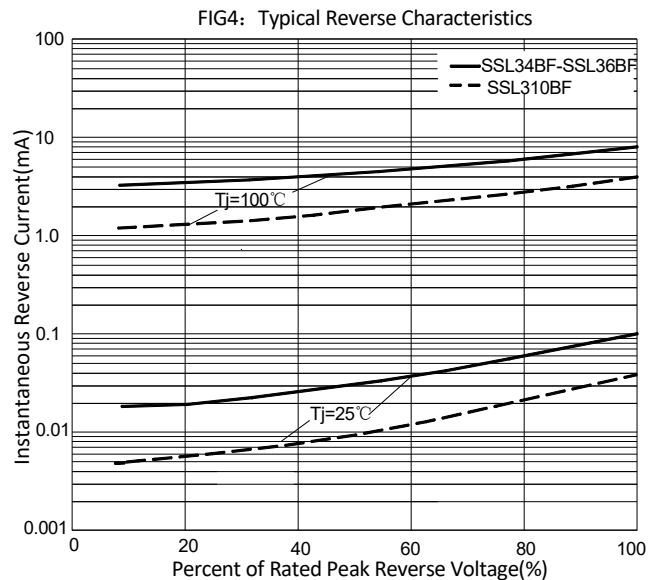
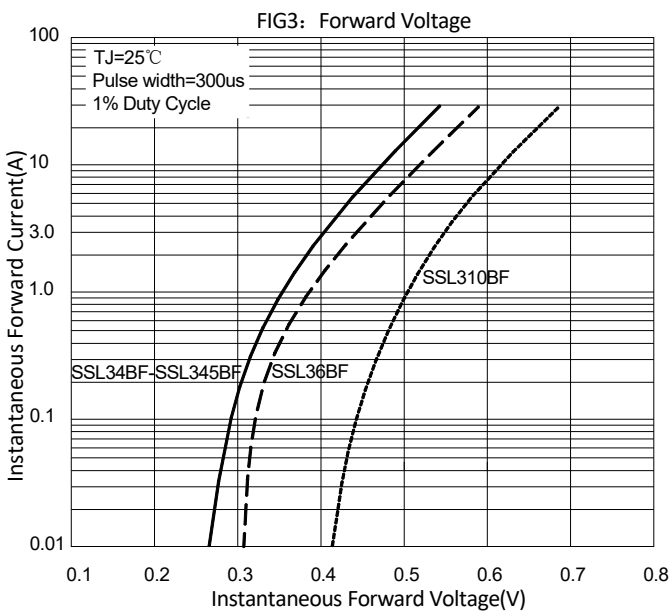
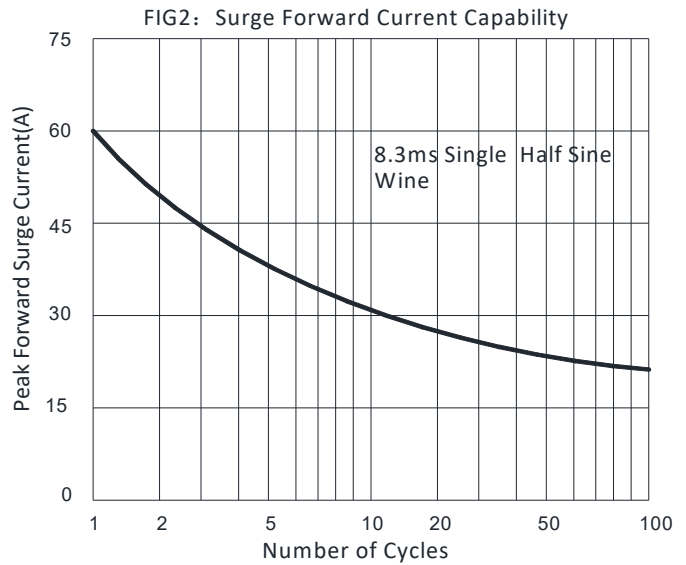
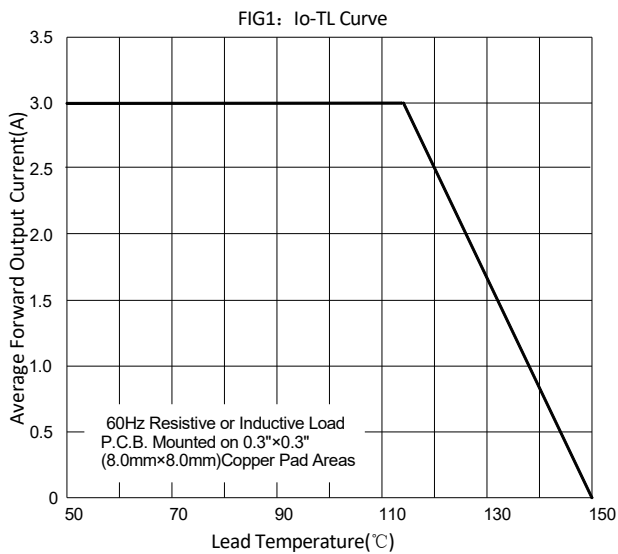
# SSL34BF THRU SSL310BF

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SSL34BF	SSL345BF	SSL36BF	SSL310BF
Typical Thermal Resistance <sup>(1)</sup>	R <sub>θJ-A</sub>	°C/W	58			
	R <sub>θJ-L</sub>		20			
	R <sub>θJ-C</sub>		15			

Note:  
 (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad area ■

## ■ Characteristics(Typical)



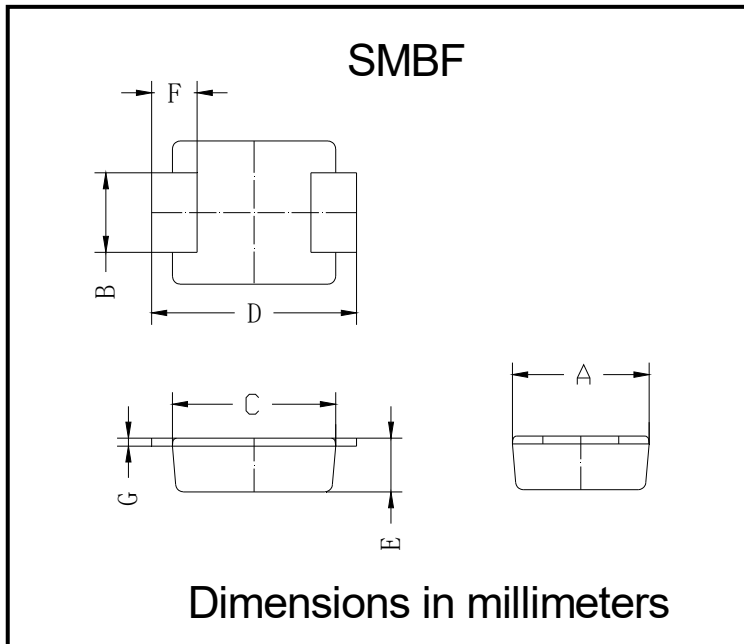


# SSL34BF THRU SSL310BF

## ■ Ordering Information (Example)

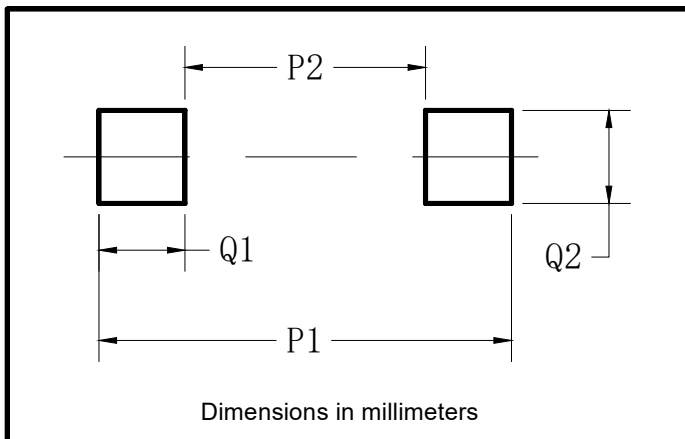
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SSL34BF-SSL310BF	F1	Approximate 0.096	5000	/	80000	13" reel

## ■ Outline Dimensions



SMBF		
Dim	Min	Max
A	3.40	3.80
B	1.90	2.10
C	4.15	4.45
D	5.10	5.60
E	1.05	1.55
F	0.70	1.35
G	0.15	0.25

## ■ Suggested Pad Layout



Dim	Millimeters
P1	6.20
P2	2.40
Q1	1.90
Q2	2.20



## SSL34BF THRU SSL310BF

---

### Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.