



## 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, DC/DC converters, and polarity protection applications.

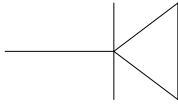
### Mechanical Data

**Package:** DO-214AA (SMB)

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 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SSL34B	SSL345B	SSL36B	SSL310B
Device marking code			SSL34B	SSL345B	SSL36B	SSL310B

	o	A	3.0			
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25	I <sub>FSM</sub>	A	60			
Storage temperature	T <sub>stg</sub>		-55 ~+150			
Junction temperature	T <sub>j</sub>		-55 ~+150			

### Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SSL34B	SSL345B	SSL36B	SSL310B
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	0.5			0.1
			Ta=100	10			5

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

Note2:Pulse test:pulse width 40mS



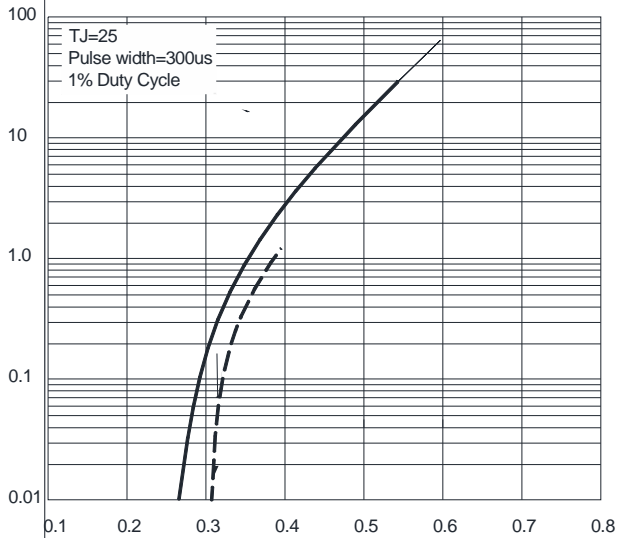
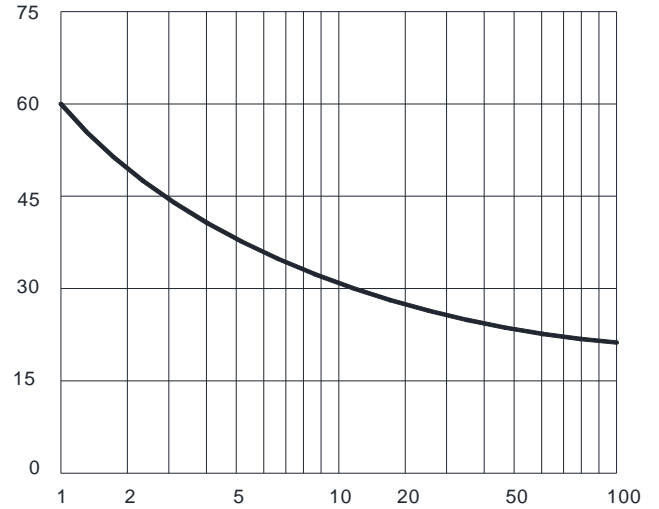
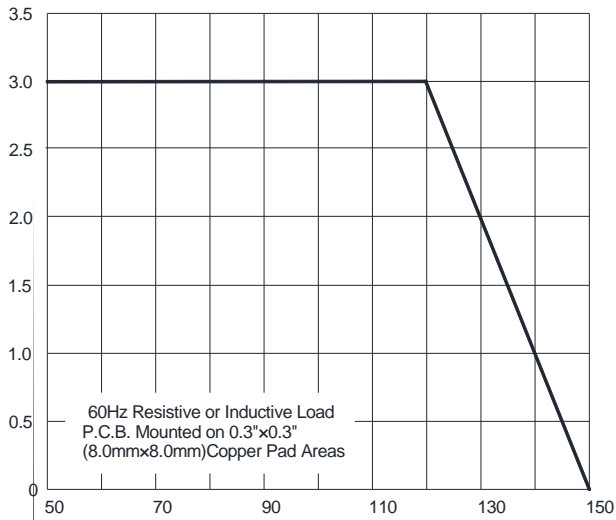
# SSL34B THRU SSL310B

**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

PARAMETER	SYMBOL	UNIT	SSL34B	SSL345B	SSL36B	SSL310B
Thermal resistance	$R_{J-A}$	/W	65 <sup>(1)</sup>			
	$R_{J-L}$		17 <sup>(1)</sup>			

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 areas

## Characteristics(Typical)





# SSL34B THRU SSL310B

## Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SSL34B-SSL310B	F1	Approximate 0.096	3000	/	48000	13" reel
SSL34B-SSL310B	F2	Approximate 0.096	750	3000	24000	7" reel
SSL34B-SSL310B	F3	Approximate 0.096	500	2000	16000	7" reel

## Outline Dimensions

DO-214AA(SMB)		
Dim	Min	Max
A	1.85	2.15
B	3.30	3.94
C	4.05	4.75
D	1.99	2.61
E	5.21	5.59
F	0.90	1.41
G	0.05	0.20
H	0.15	0.31

## Suggested pad layout

DO-214AA(SMB)	
Dim	Millimeters
P1	6.8
P2	4.3
P3	1.8
Q1	2.5
Q2	2.3



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