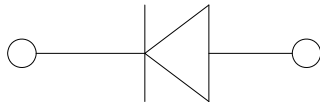
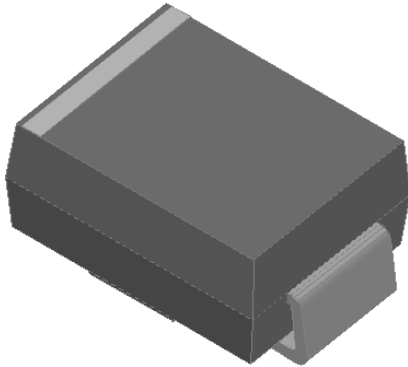


## Surface Mount Schottky Rectifier



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

PARAMETER	SYMBOL	UNIT	SSL24	SSL245	SSL26	SSL210
Device marking code			SSL24	SSL245	SSL26	SSL210
Repetitive peak reverse voltage	V <sub>RRM</sub>	V	40	45	60	100
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I <sub>o</sub>	A	2.0			
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25°C	I <sub>FSM</sub>	A	50			
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150			
Junction temperature	T <sub>j</sub>	°C	-55 ~+150			

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SSL24	SSL245	SSL26	SSL210
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =2.0A	0.47		0.55	0.75
Maximum DC reverse current at rated DC blocking voltage per diode @ V <sub>RM</sub> =V <sub>RRM</sub>	I <sub>RRM</sub>	mA	T <sub>a</sub> =25°C	0.5			0.1
			T <sub>a</sub> =100°C	10			5

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

Note2:Pulse test:pulse width 40mS



# SSL24 THRU SSL210

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

PARAMETER	SYMBOL	UNIT	SSL24	SSL245	SSL26	SSL210
Thermal resistance	R <sub>θJ-A</sub>	°C/W	65 <sup>1)</sup>			
	R <sub>θJ-L</sub>		20 <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)

FIG1: Io-TL Curve

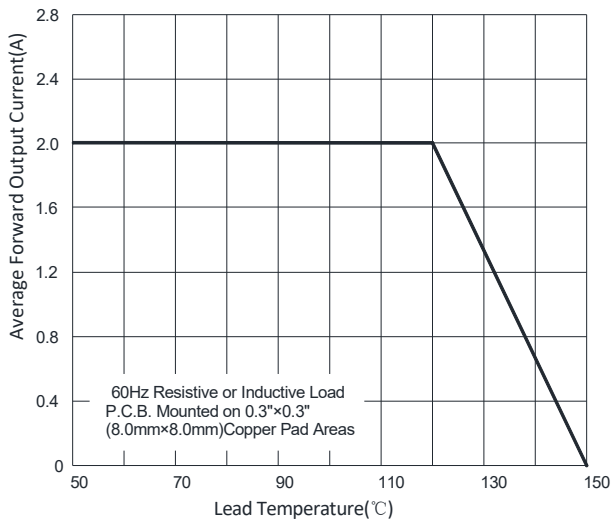


FIG2: Surge Forward Current Capability

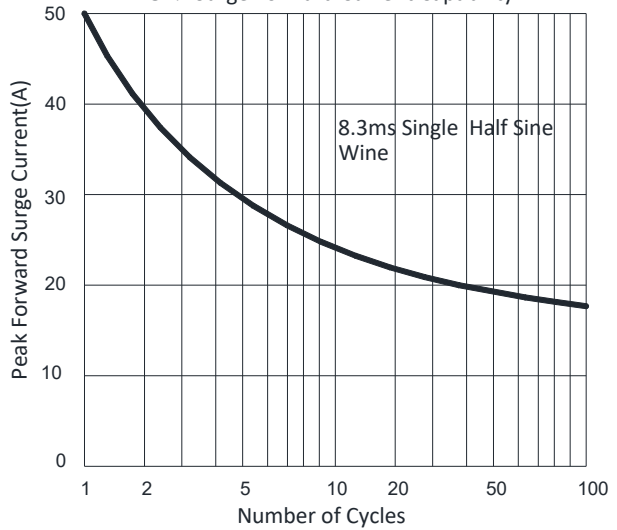


FIG3: Forward Voltage

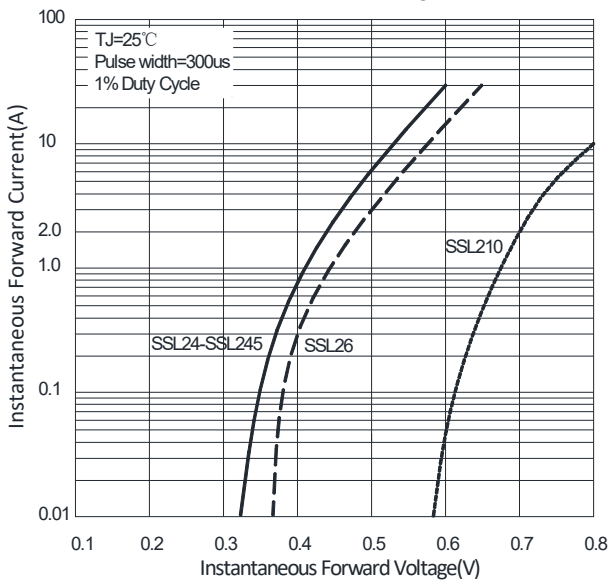
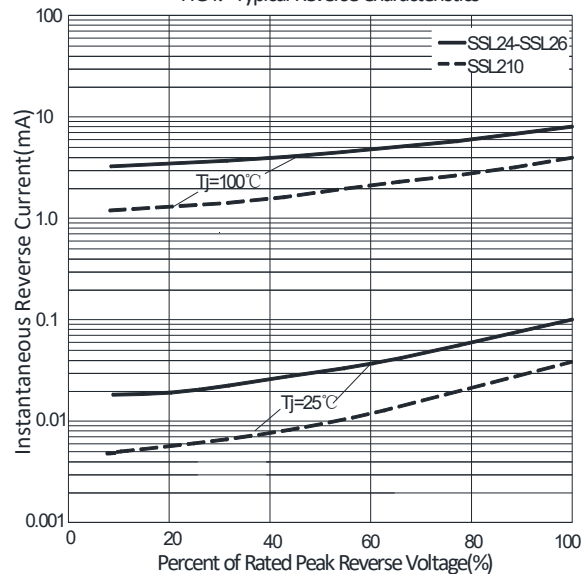


FIG4: Typical Reverse Characteristics



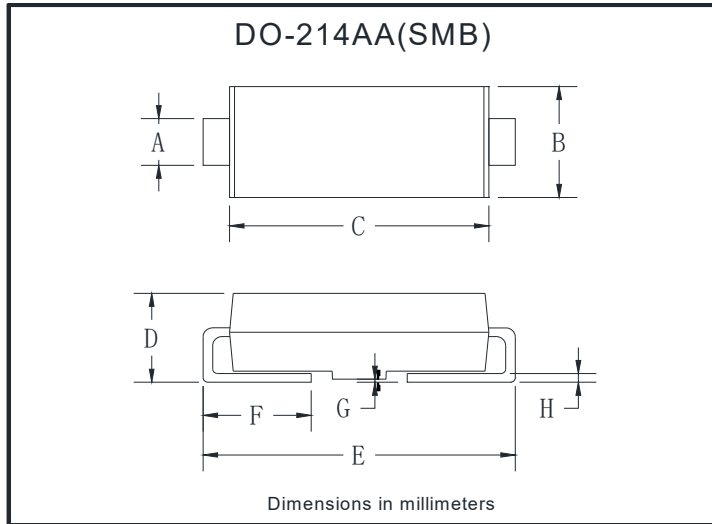


# SSL24 THRU SSL210

## ■ Ordering Information (Example)

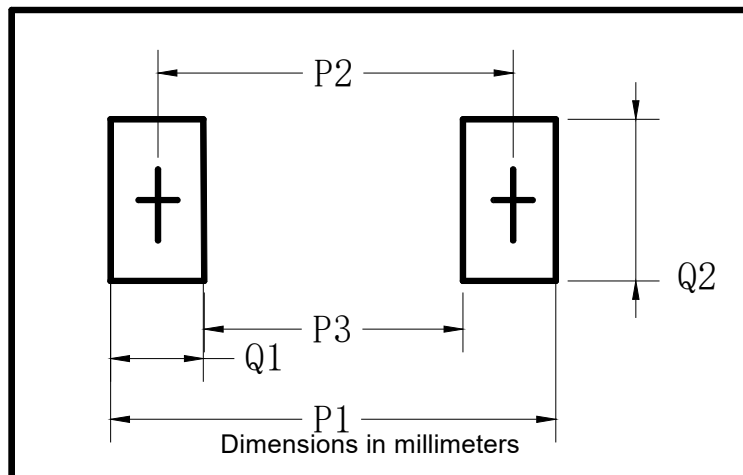
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SSL24-SSL210	F1	Approximate 0.096	3000	/	48000	13" reel
SSL24-SSL210	F2	Approximate 0.096	750	3000	24000	7" reel
SSL24-SSL210	F3	Approximate 0.096	500	2000	16000	7" reel

## ■ 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



## SSL24 THRU SSL210

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