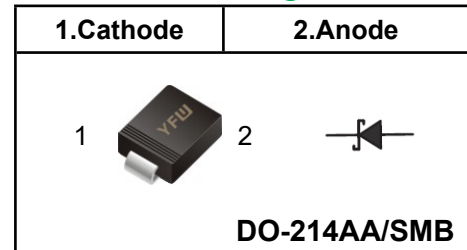


**Surface Mount Schottky Barrier Rectifier**
**Reverse Voltage - 40V**
**Forward Current - 2 A**
**FEATURES**

- ◆Metal silicon junction, majority carrier conduction
- ◆For surface mounted applications
- ◆Low power loss, high efficiency
- ◆High forward surge current capability
- ◆For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- ◆Case: DO-214AA/SMB
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Approx. Weight: 0.095g / 0.003oz

**Pinning**

**Marking Code**

<b>SSL24B</b>	<b>YFW SSL24</b>
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**Absolute Maximum Ratings and Electrical characteristics**

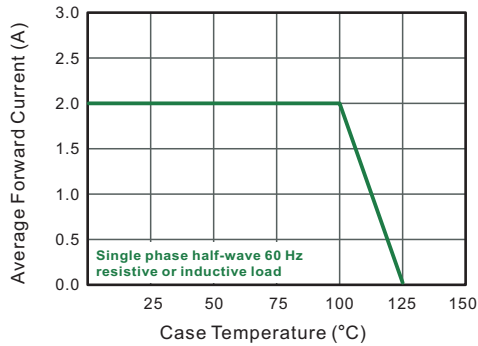
Ratings at 25 ° ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SSL24B	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS voltage	$V_{RMS}$	28	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	$I_{FSM}$	50	A
Maximum Instantaneous Forward Voltage at 2 A	$V_F$	0.45	V
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage	$I_R$	0.5 10	mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	290	pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	62	°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150	°C

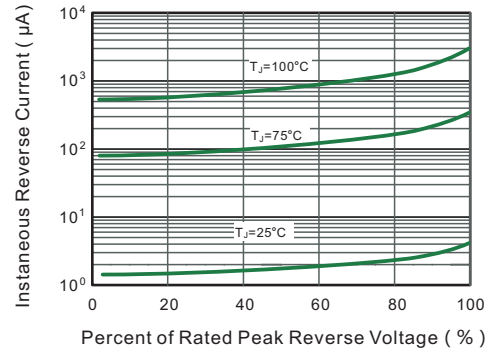
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

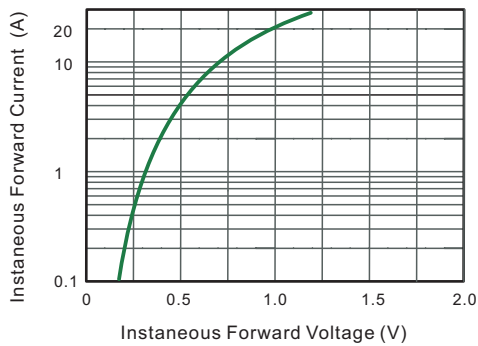
**Fig.1 Forward Current Derating Curve**



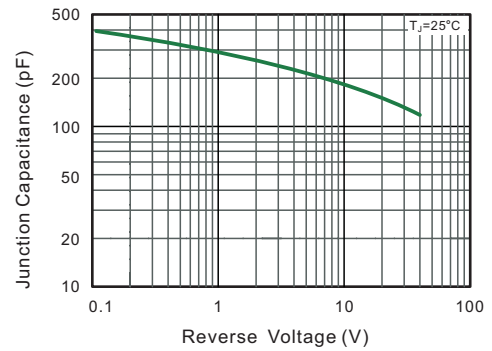
**Fig.2 Typical Reverse Characteristics**



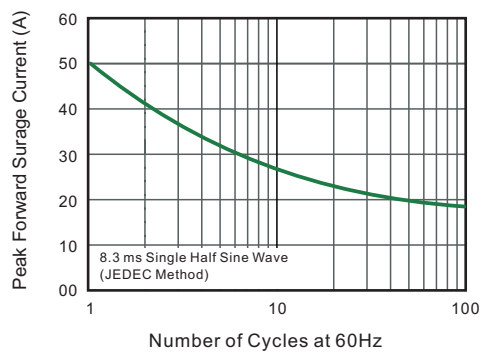
**Fig.3 Typical Forward Characteristic**



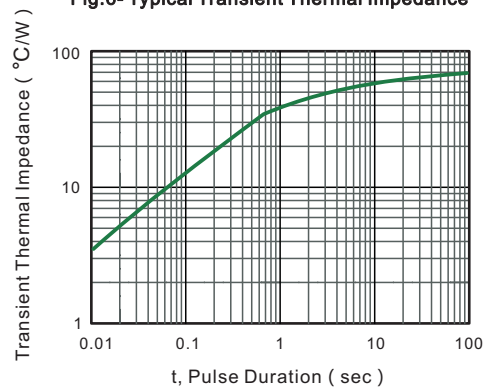
**Fig.4 Typical Junction Capacitance**



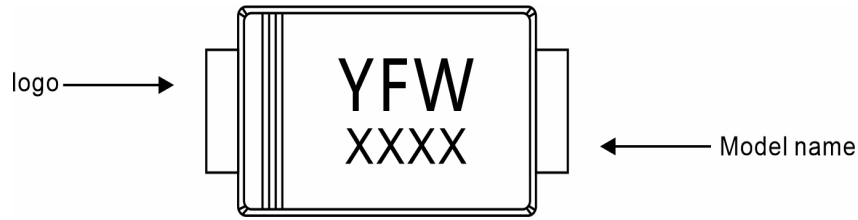
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.6- Typical Transient Thermal Impedance**



**Marking Diagram**



**Ordering information**

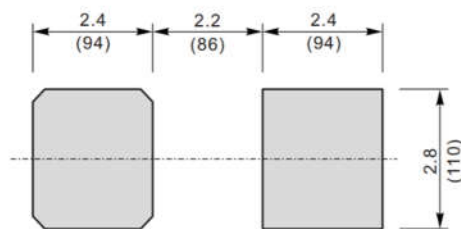
Package	Packing Description	Packing Quantity
DO-214AA SMB	Tape/Reel, 13"reel	3000PCS/Reel 30000PCS/Carton

**Package Dimensions**

**DO-214AA SMB**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	2.13	2.44	84	96
E	4.06	4.70	160	185
D	3.3	3.94	130	155
E <sub>1</sub>	5.08	5.59	200	220
A <sub>1</sub>	0.05	0.20	2.0	7.9
L	0.8	1.5	32	59
C	0.152	0.305	6	12
b	1.9	2.2	75	87

**The recommended mounting pad size**



Unit :  $\frac{\text{mm}}{\text{mil}}$

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