

**Surface Mount Schottky Barrier Rectifier**
**Reverse Voltage –150~200V**
**Forward Current - 5 A**
**FEATURES**

- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Built-in strain relief, ideal for automated placement
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed  
260 °C/10 seconds at terminals

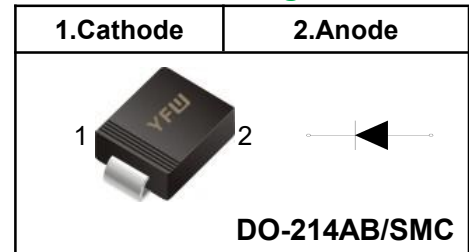
**MECHANICAL DATA**

- ◆Case : Molded plastic body
- ◆Terminals : Solder plated, solderable per  
MIL-STD-750, Method 2026
- ◆Polarity : Polarity symbol marking on body
- ◆Mounting Position : Any
- ◆Weight : 0.008 ounce, 0.225 grams

**Maximum Ratings And Electrical Characteristics**

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

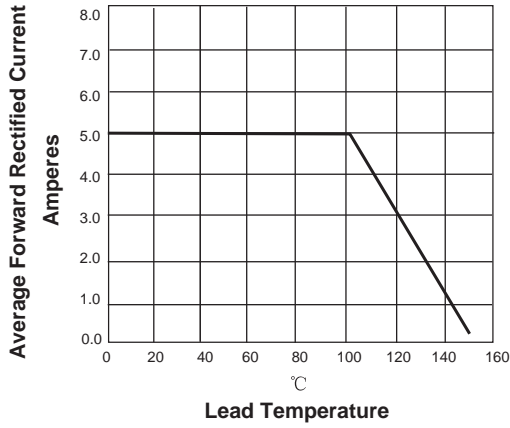
Parameter	Symbols	SSL515C	SSL520C	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150	200	V
Maximum RMS voltage	$V_{RMS}$	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	150	200	V
Maximum average forward rectified current at $T_L=100\text{ }^\circ\text{C}$	$I_{F(AV)}$	5.0		A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load	$I_{FSM}$	120		A
Maximum Instantaneous Forward Voltage at 5.0A	$V_F$	0.85		V
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	$I_R$	0.2 20		mA
Typical Thermal Resistance	$R_{\theta JA}$	47.0		$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 ~ +150		$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ +150		$^\circ\text{C}$

**Pinning**

**Marking Code**

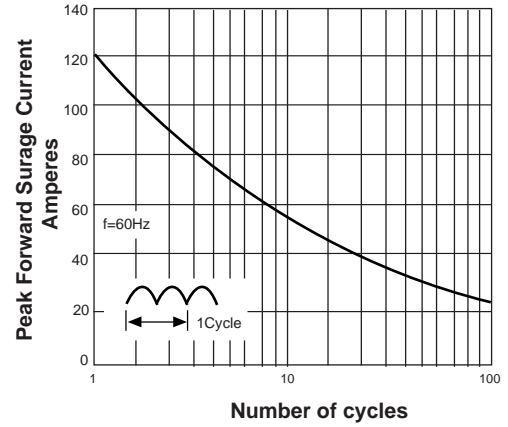
<b>SSL515C</b>	<b>YFW SSL515</b>
<b>SSL520C</b>	<b>YFW SSL520</b>

**Ratings And Characteristic Curves**

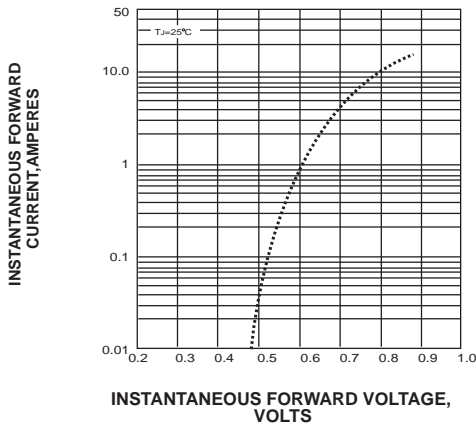
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**



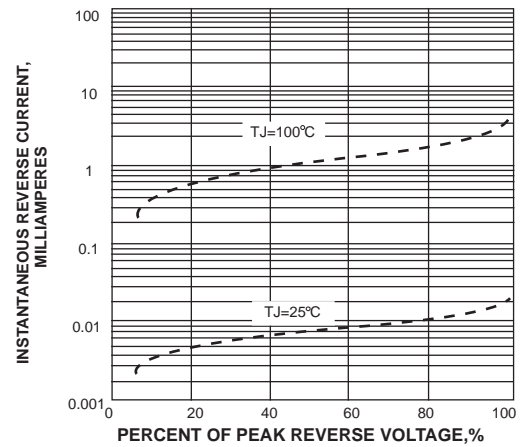
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



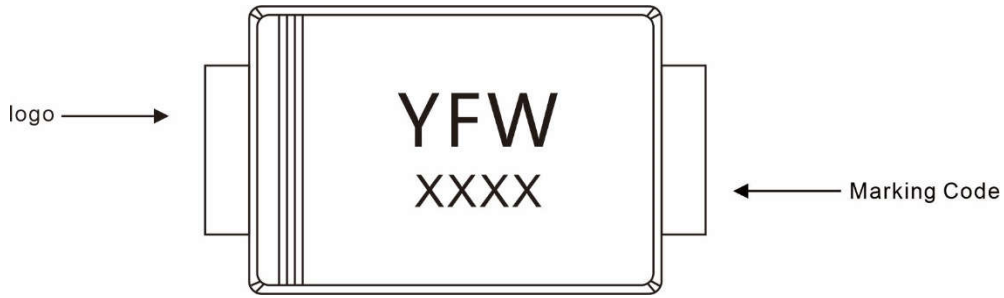
**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS**



**FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



**Marking Diagram**



**Ordering information**

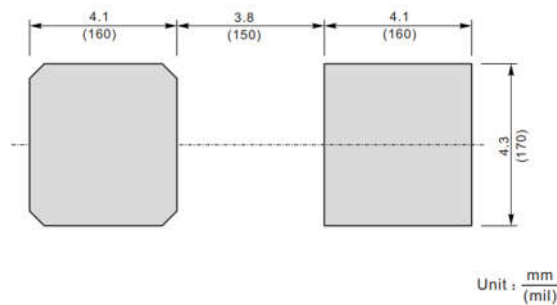
Package	Packing Description	Packing Quantity
DO-214AB SMC	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Carton

**Package Dimensions**

**DO-214AB SMC**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	2.00	2.62	79	103
E	6.5	7.0	256	276
D	5.6	6.2	220	244
E <sub>1</sub>	7.6	8.0	299	315
A <sub>1</sub>	0.05	0.21	2.0	8.3
C	0.15	0.31	5.9	12
L	0.9	1.6	35	63
b	2.75	3.25	108	128

**The recommended mounting pad size**



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