

Surface Mounted Trench Schottky Barrier Rectifiers

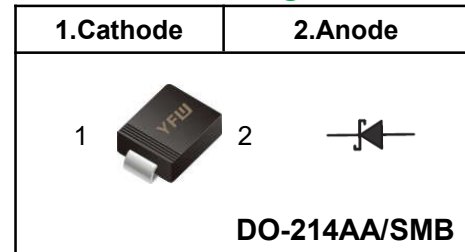
Reverse Voltage - 150 V

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 forward voltage
- High forward surge current capability
- High temperature soldering guaranteed
260 C/10 seconds at terminals

Pinning



Marking Code

SSL515B	YFW SSL515
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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 : 0.0035 ounce, 0.098 grams

Maximum Ratings and Electrical characteristics

Parameter	Symbols	SSL515B	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current at $T_c=100\text{ }^\circ\text{C}$	$I_{(AV)}$	5.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load	I_{FSM}	150	A
Typical thermal resistance	R_{qJA} R_{qJL}	65 16	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	-55 ~ +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^\circ\text{C}$

Note: 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

Electrical Characteristics($T_a=25\text{ }^\circ\text{C}$ unless otherwise specified)

Parameter	Symbols	TYPE	MAX	UNITS
Maximum instantaneous forward voltage at 5.0A	V_F	0.78	0.85	V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25\text{ }^\circ\text{C}$	50	μA
		$T_A=100\text{ }^\circ\text{C}$	20	mA

Typical Characteristics

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

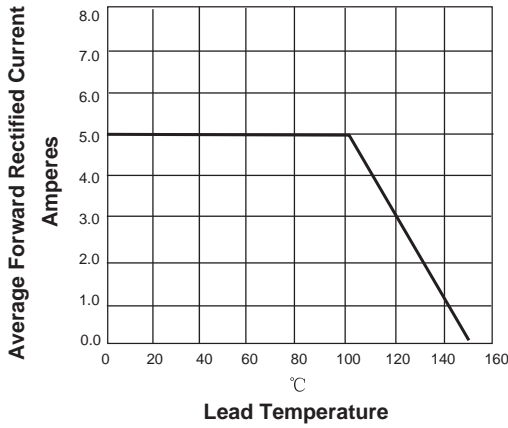


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

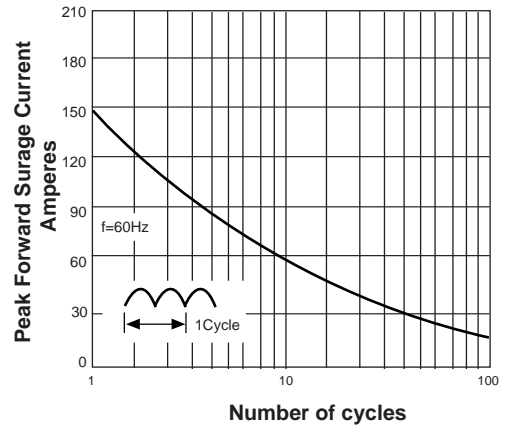


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

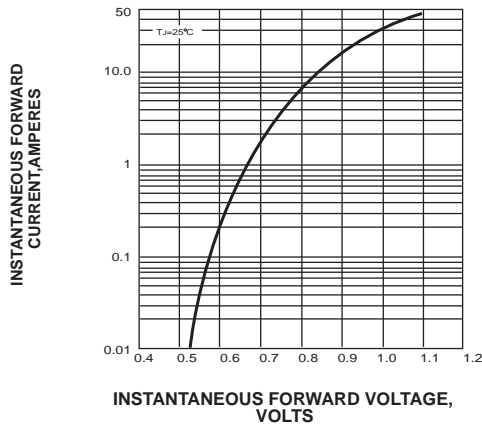
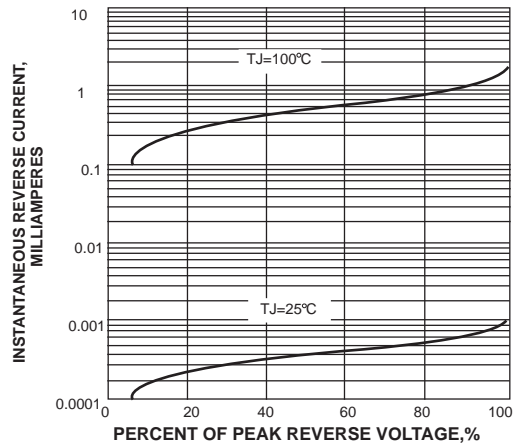


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

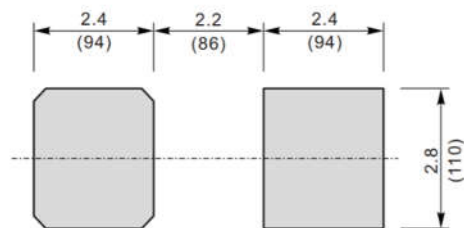
Package	Packing Description	Packing Quantity
DO-214AA SMB	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Carton

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 ₁	5.08	5.59	200	220
A ₁	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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