

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200 V

Forward Current - 2 A

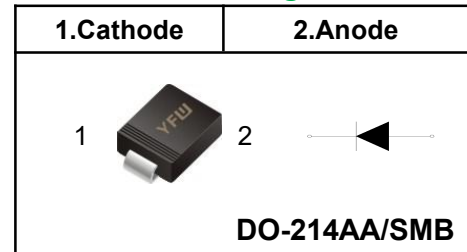
FEATURES

- ◆ 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 250 °C/10 seconds at terminals

MECHANICAL DATA

- ◆ Case: DO-214AA/SMB
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Weight : 0.0035 ounce, 0.098 grams

Pinning



Marking Code

SK22B	YFW SK22
SK24B	YFW SK24
SK26B	YFW SK26
SK28B	YFW SK28
SK210B	YFW SK210
SK215B	YFW SK215
SK220B	YFW SK220

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	SK22B	SK24B	SK26B	SK28B	SK210B	SK215B	SK220B	Units	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	105	140	V	
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	V	
Maximum average forward rectified current at $T_L=100^{\circ}C$	$I_{(AV)}$	2.0							A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50							A	
Maximum instantaneous forward voltage at 2.0A	V_F	0.55		0.70	0.85		0.95		V	
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	I_R	0.5 50			0.05 10				mA	
Typical Thermal Resistance	$R_{\theta JA}$	85.0							°C/W	
Operating Junction Temperature Range	T_j	-55 ~ +125				-55 ~ +150				°C
Storage Temperature Range	T_{stg}	-55 ~ +150							°C	

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

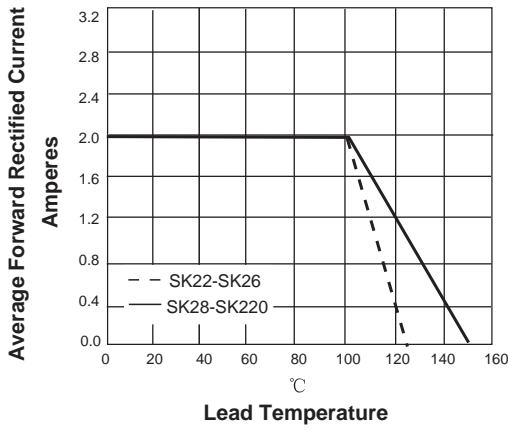


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

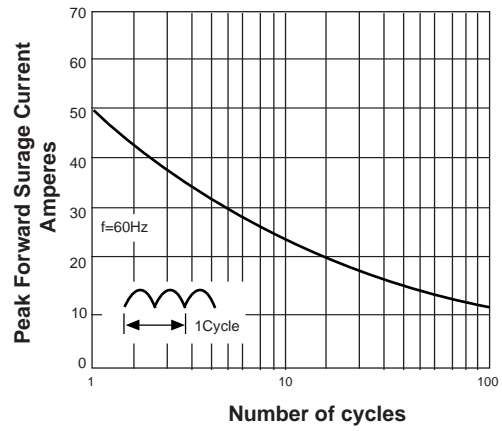


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

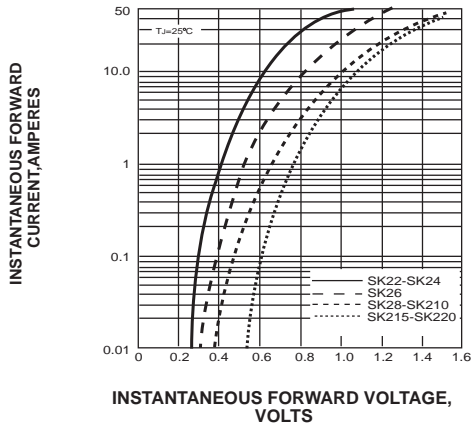
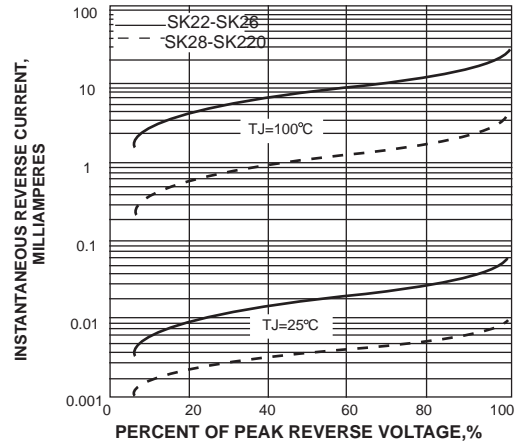
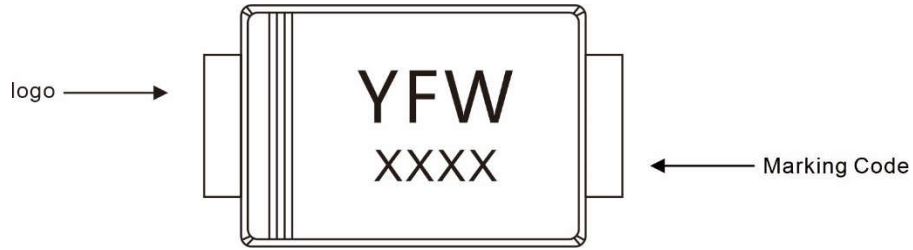


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

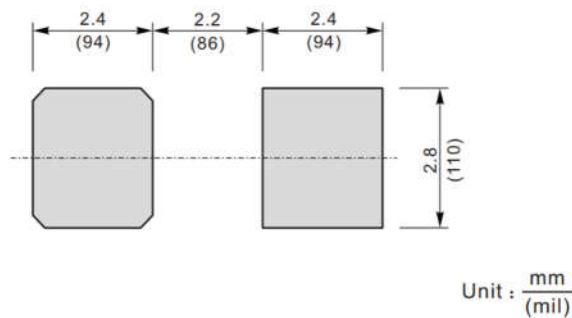
Package	Packing Description	Packing Quantity
DO-214AA SMB	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Carton

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



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