

## Power Schottky Rectifier - 2Amp 40~200Volt

### Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- Halogen-Free

### Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end
- Weight : 0.002 ounce 0.064 grams

### Maximum ratings and Electrical characteristics

Parameters	SBR24	SBR26	SBR210	SBR215	SBR220	UNIT	
Marking Code	SK24	SK26	S210	S215	S220		
Maximum Recurrent Peak Reverse Voltage	40	60	100	150	200	V	
Maximum RMS Voltage	28	42	70	105	140	V	
Maximum DC Blocking Voltage	40	60	100	150	200	V	
Maximum Average Forward Rectified Current	2					A	
Peak Forward Surge Current	50					A	
Maximum Instantaneous Forward Voltage at 2A	Tc = 25°C	0.50	0.65	0.80	0.88	0.90	V
	Tc = 125°C	0.40	0.50	0.66	0.69	0.72	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5		0.05		mA	
	Tc = 100°C	20		10			
Typical Junction Capacitance	150					pF	
Typical Thermal Resistance R <sub>θJL</sub> (Note 1)	18					°C/W	
Operating and Storage Temperature Range	-50 to +125		-50 to +150			°C	

Note : 1. Mounted on P.C.B with copper pad size 14mm x 14mm

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# SBR24 ~ SBR220

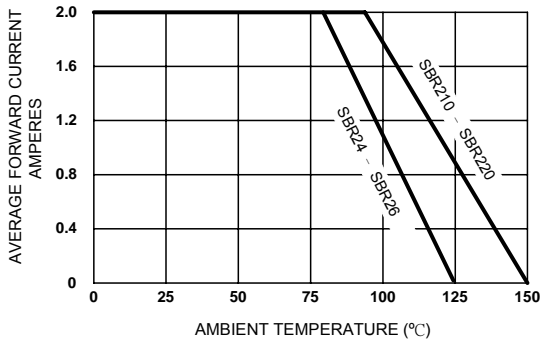


Figure 1. Forward Current Derating Curve

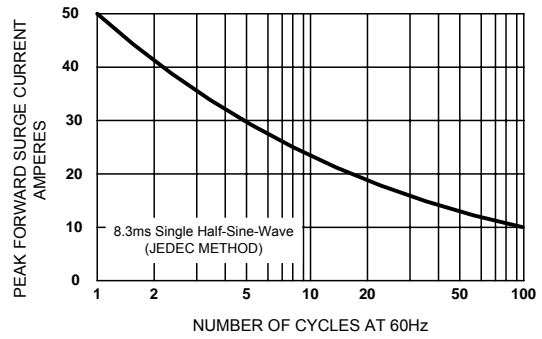


Figure 2. Maximum Non-repetitive Surge Current

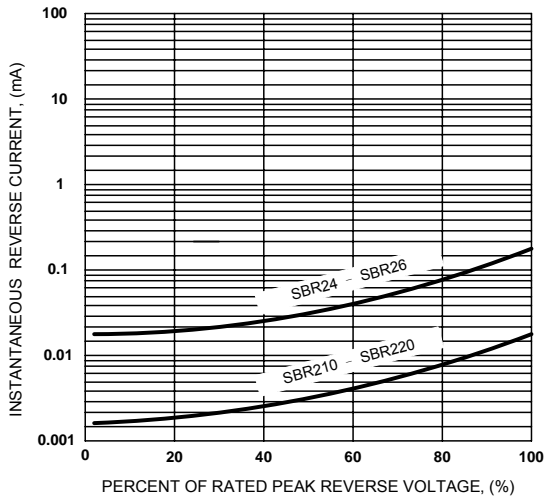


Figure 3. Typical Reverse Characteristics

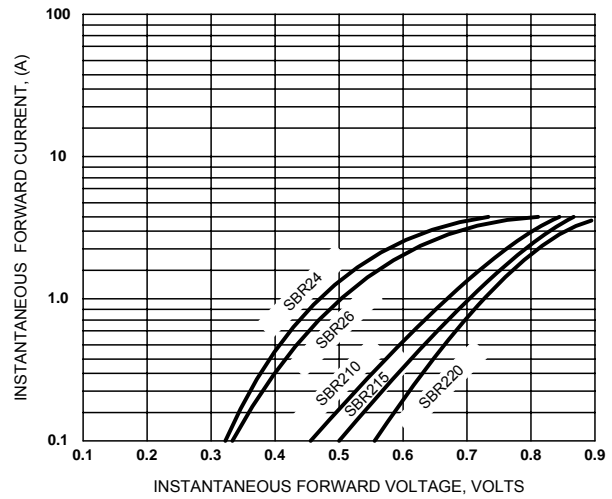


Figure 4. Typical Forward Characteristics

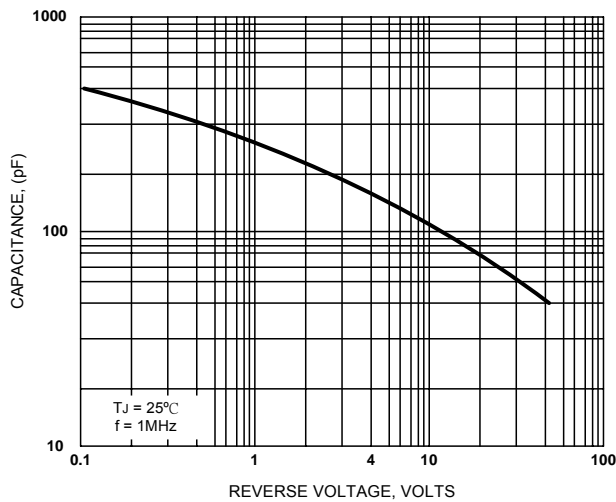


Figure 5. Typical Junction Capacitance



Sirectifier Semiconductor Inc.

U.S.A.: [sgc@sirect.com](mailto:sgc@sirect.com)

China: [st@sirect.com](mailto:st@sirect.com)

Taiwan: [se@sirect.com](mailto:se@sirect.com)

Hong Kong: [hk@sirect.com](mailto:hk@sirect.com)

