

Power Schottky Rectifier - 5Amp 40~200Volt

☐ Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction
- Halogen-Free

☐ Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202,method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 1.2 grams

☐ Maximum ratings and Electrical characteristics

Parameters		SB540H	SB560H	SB5100H	SB5150H	SB5200H	UNIT
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		5					A
Peak Forward Surge Current		100					A
Maximum Instantaneous Forward Voltage at 5A	Tc = 25°C	0.55	0.70	0.82	0.88	0.90	V
	Tc = 125°C	0.44	0.55	0.66	0.69	0.72	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5		0.05			mA
	Tc = 125°C	20		10			
Typical Junction Capacitance		250					pF
Typical Thermal Resistance RθJA		25					°C/W
Operating and Storage Temperature Range		-50 to +150		-50 to +175			°C

June 2010 / Rev.6.6

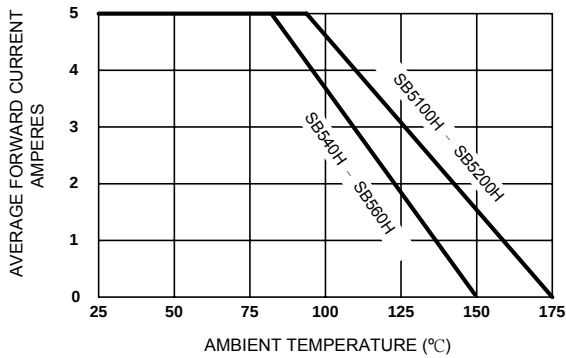


Figure 1. Forward Current Derating Curve

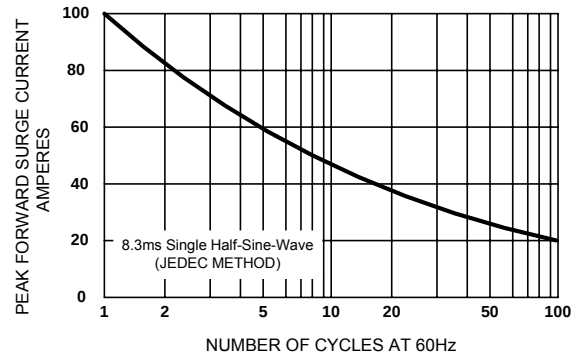


Figure 2. Maximum Non-repetitive Surge Current

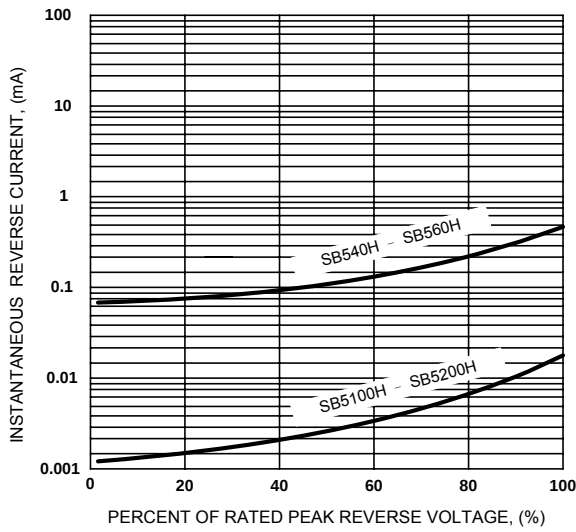


Figure 3. Typical Reverse Characteristics

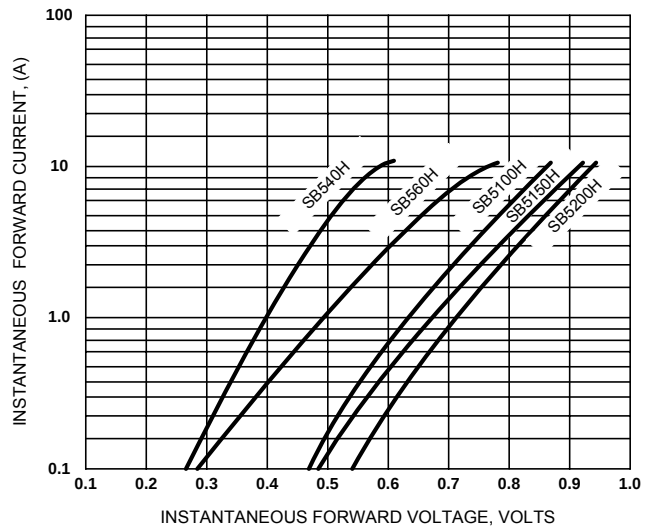


Figure 4. Typical Forward Characteristics

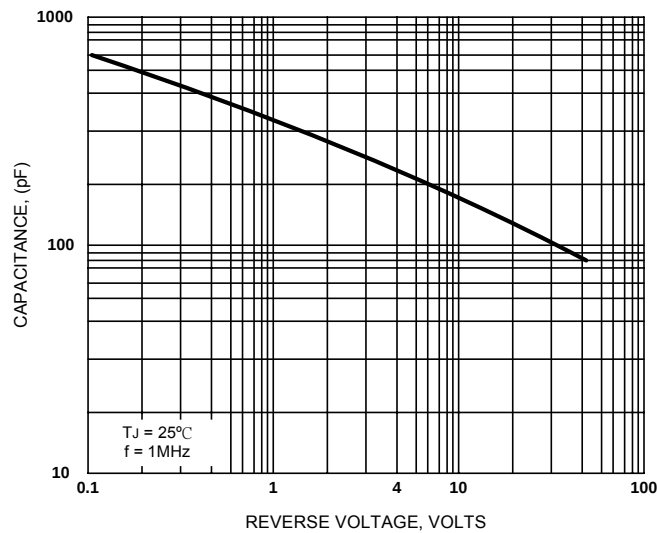


Figure 5. Typical Junction Capacitance

SB540H~SB5200H

D0-27 / D0-201AD

