SIRECT
ELECTRONIC

SB340ES ~ SB3200ES

Power Schottky Rectifier - 3Amp 40~200Volt

☐ Features

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

☐ 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：0.4 grams

☐ Maximum ratings and Electrical characteristics

Parameters		SB340ES	SB360ES	SB3100ES	SB3150ES	SB3200ES	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		3					A
Peak Forward Surge Current		80					A
Maximum Instantaneous Forward Voltage at 3A	Tc = 25°C	0.55	0.65	0.82	0.88	0.90	V
	Tc = 125°C	0.44	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 = 125°C	20		10			
Typical Junction Capacitance		150					pF
Typical Thermal Resistance RθJA		30					°C/W
Operating and Storage Temperature Range		-50 to +150		-50 to +175			°C

June 2010 / Rev.6.6

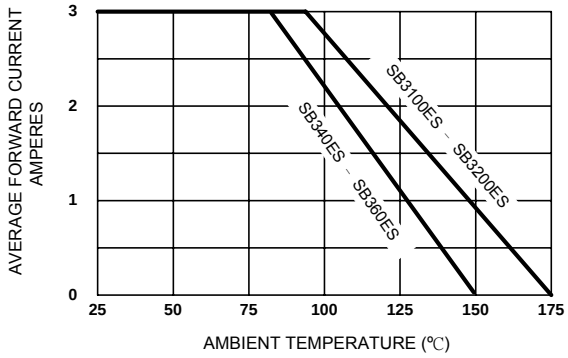


Figure 1. Forward Current Derating Curve

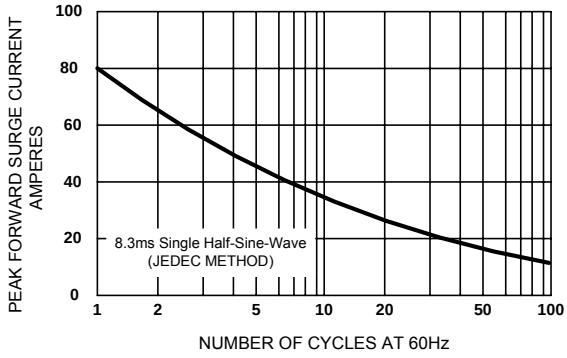


Figure 2. Maximum Non-repetitive Surge Current

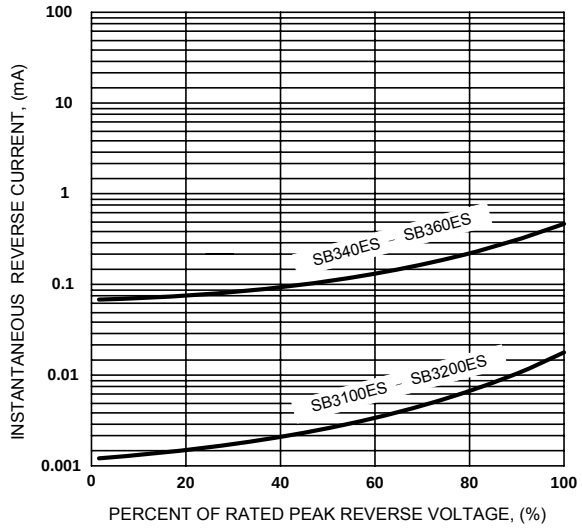


Figure 3. Typical Reverse Characteristics

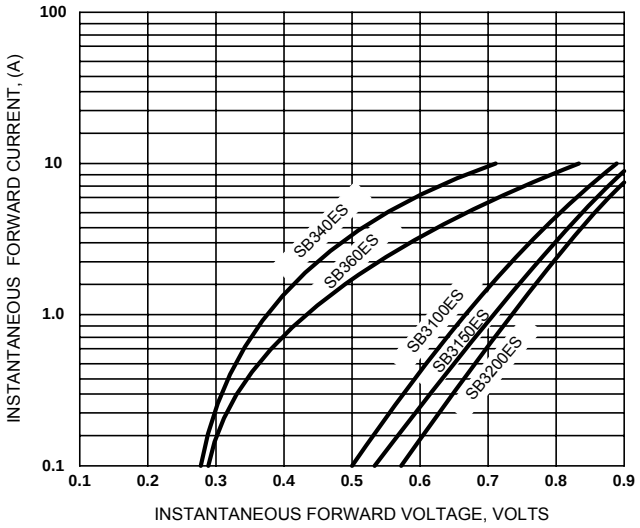


Figure 4. Typical Forward Characteristics

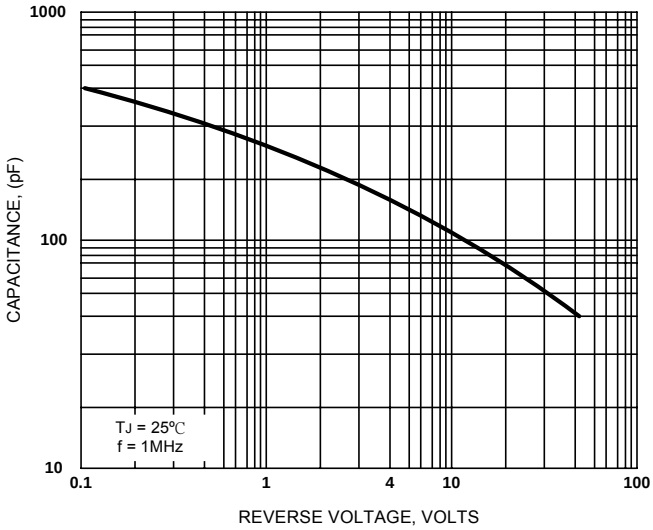


Figure 5. Typical Junction Capacitance

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