SIRECT
ELECTRONIC

SBR34 ~ SBR320

Power Schottky Rectifier - 3Amp 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
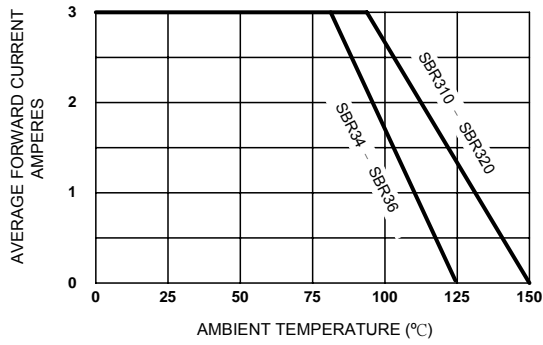-Lead free device
-Halogen-Free

☐ 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 ： 0.003 ounce 0.0955 grams
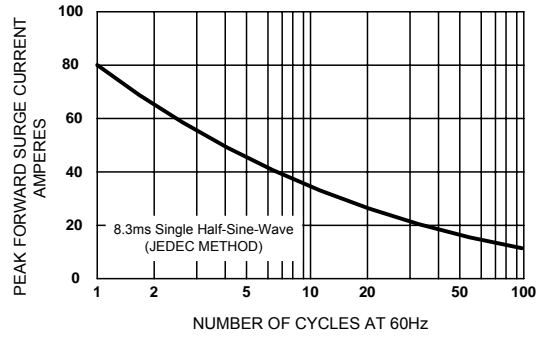
☐ Maximum ratings and Electrical characteristics

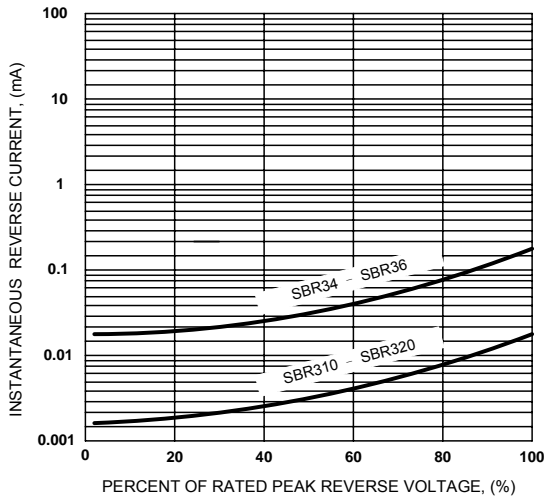| Parameters		SBR34	SBR36	SBR310	SBR315	SBR320	UNIT
Marking Code		SS34	SS36	S310	S315	S320	
Maximum Recurrent Peak Reverse Voltage		40	60	100	150	200	V
Maximum RMS Voltage		28	42	70	105	140	V
Maximum DC Blocking Voltage		40	60	100	150	200	V
Maximum Average Forward Rectified Current		3					A
Peak Forward Surge Current		80					A
Maximum Instantaneous Forward Voltage at 3A	Tc = 25°C	0.55	0.65	0.80	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 = 100°C	20		10			
Typical Junction Capacitance		150					pF
Typical Thermal Resistance R$_{\theta}$JL (Note 1)		18					°C/W
Operating and Storage Temperature Range		-50 to +125		-50 to +150			°C

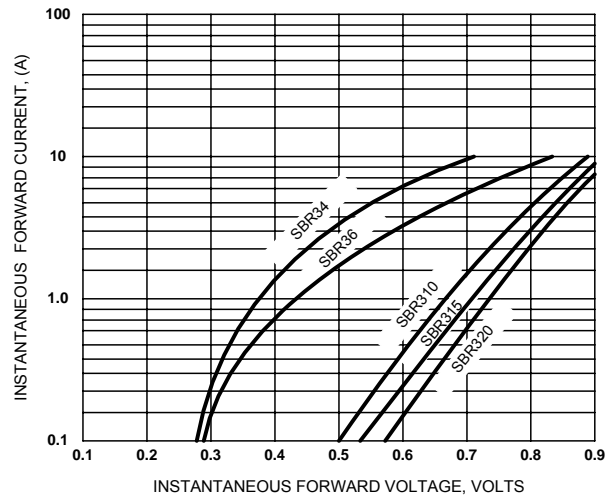Note : 1. Mounted on P.C.B with copper pad size 14mm x 14mm

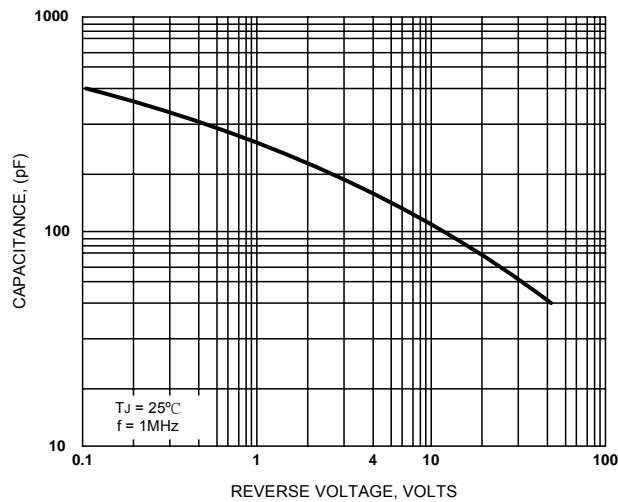**Figure 1. Forward Current Derating Curve**

Figure 2. Maximum Non-repetitive Surge Current

Figure 3. Typical Reverse Characteristics

Figure 4. Typical Forward Characteristics

Figure 5. Typical Junction Capacitance

◆SIRECT   **Sirectifier Semiconductor Inc.**

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SBR34~SBR320

SMB - FW

.142(3.60)
.126(3.20)

.181(4.60)
.165(4.20)

.075(1.90)
.067(1.70)

.014(0.35)
.006(0.15)

.032(0.80) Typ.

.016(0.40) Typ.

.213(5.40)
.197(5.00)

UNIT : inch(mm)

K ◄ A

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