

SB840(E)(H) ~ SB8100(E)(H)

Power Schottky Rectifier - 8Amp 40~100Volt

□ 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 : 1.2 grams

☐ Maximum ratings and Electrical characteristics

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	SB840(E)(H)	SB860(E)(H)	SB8100(E)(H)	UNIT
Voltage	40	60	100	V
	28	42	70	V
9	40	60	100	V
Current	8			А
	120			А
Tc = 25°C	0.55	0.65	0.82	V
Tc = 125°C	0.50	0.55	0.66	
Tc = 25°C	0.5		0.05	mA
Tc = 100°C	20		10	
1	350			pF
Note 2)	25		°C/W	
Range	-50 to +125 -50 to +15		-50 to +150	٥C
	e Current Tc = 25°C Tc = 125°C Tc = 25°C Tc = 100°C	Voltage 40 28 28 e 40 Current	Voltage 40 60 28 42 e 40 60 Current 8 Tc = 25°C 0.55 0.65 Tc = 125°C 0.50 0.55 Tc = 25°C 0.50 0.55 Tc = 25°C 0.50 350 Vote 2) 25	Voltage 40 60 100 28 42 70 28 42 70 40 60 100 Current 8 100 Tc = 25°C 0.55 0.65 0.82 Tc = 125°C 0.50 0.55 0.66 Tc = 25°C 0.50 0.55 0.05 Tc = 100°C 20 10 350 Note 2) 25

Note : 1. E means Alloy, H means Halogen-Free

2. Mounted on P.C.B with copper pad size 16mm x 16mm, vertical P.C.B 9.5mm lead lengths

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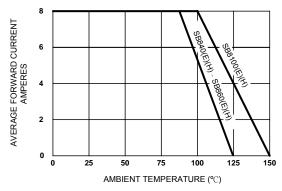


Figure 1. Forward Current Derating Curve

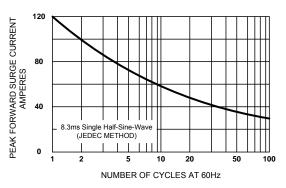
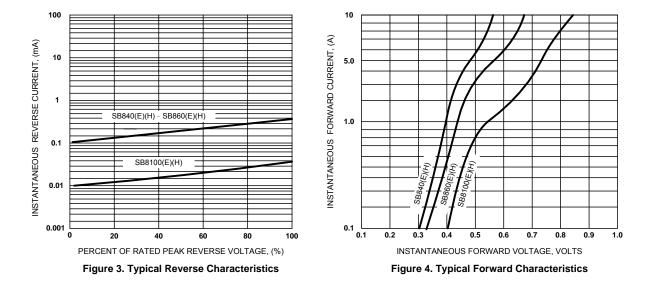


Figure 2. Maximum Non-repetitive Surge Current



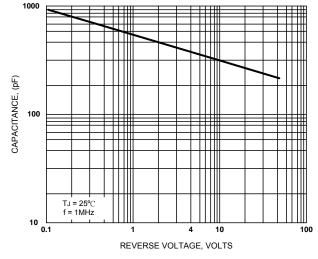
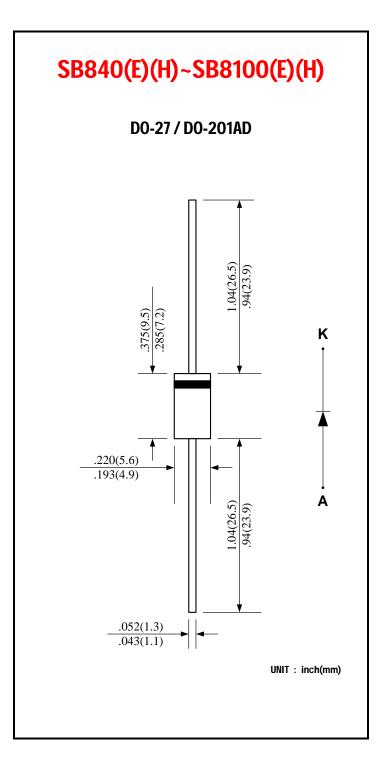


Figure 5. Typical Junction Capacitance





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