

## SB840~SB8200

**SCHOTTKY BARRIER RECTIFIERS**

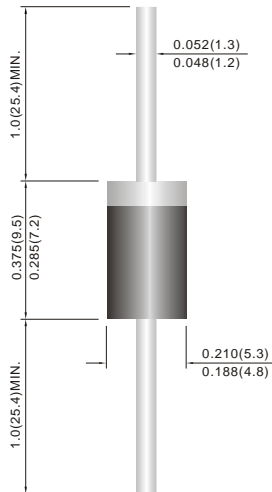
**VOLTAGE 40 to 200 Volts CURRENT 8 Ampere**



Lead-free Green

**DO-201AD**

Unit : inch(mm)



**FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Low power loss, High efficiency
- High surge capacity
- In compliance with EU RoHS 2002/95/EC directives

**MECHANICAL DATA**

- Case: DO-201 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Standard packaging: 16mm tape (EIA-481)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SB840	SB840A	SB850	SB860	SB880	SB890	SB8100	SB8150	SB8200	UNITS	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	45	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	28	31.5	35	42	56	63	70	105	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	8									A	
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	150									A	
Maximum Forward Voltage at 8.0A	$V_F$	0.55		0.74		0.85			0.95		V	
Maximum DC Reverse Current $T_J=25^{\circ}C$ at Rated DC Blocking Voltage $T_J=100^{\circ}C$	$I_R$	0.2 20									mA	
Typical Thermal Resistance	$R_{\theta JC}$	5									$^{\circ}C / W$	
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125					-55 to +155					$^{\circ}C$

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## RATING AND CHARACTERISTIC CURVES

