

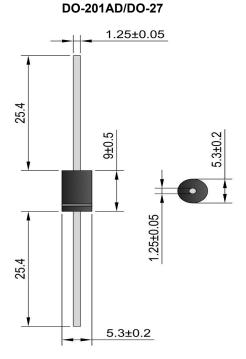
8A Schottky Barrier Rectifiers

## **Features**

- Schottky Barrier Chip
- Guard Ring for Transient and ESD Protection
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- Lead Free:For RoHS/Lead Free Verion

## **Mechanical Data**

- Case: JEDEC DO-201AD/DO-27 Type, Molded Plastic
- Terminals:Pure tin Plated ,Lead Free Solderable Per MIL-STD-750, Method 2026
- Polarity: As marked
- Weight: 1.1 grams(approx)
- Mounting Position:Any



## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB 820	SB 830	SB 840	SB 850	SB 860	SB 580	SB 8100	SB 8150	SB 8200	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	8									Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150									Α
Maximum Forward Voltage at 8A	$V_{F}$	0.55		0.75		0.85		0.95		V	
Maximum DC Reverse Current at T <sub>J</sub> =25°C Rated DC Blocking Voltag T <sub>J</sub> =100°C	I <sub>R</sub>	0.5 20									mA
Typical Thermal Resistance Junction To Lead	$R_{\theta JL}$	10									°C/W
Typical Thermal Resistance Junction To Ammbient	$R_{\theta JL}$	25									°C/W
Operating Junction Temperature Range	$T_J$	-55 to +125			-55 to +150						°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150									°C



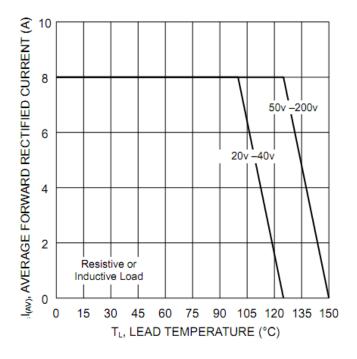


Fig. 1 Forward Current Derating Curve

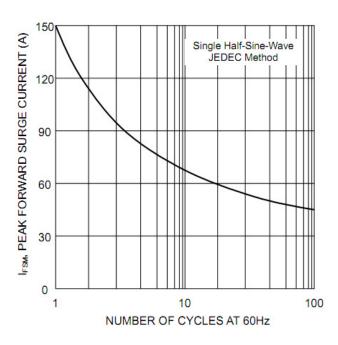


Fig. 3 Typical Reverse Characteristics

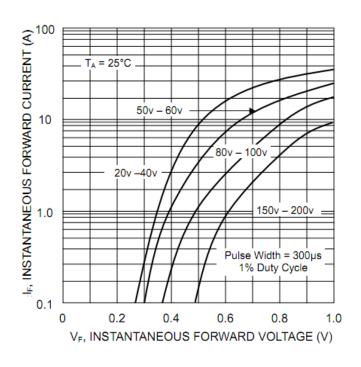


Fig. 2 Typical Forward Characteristics

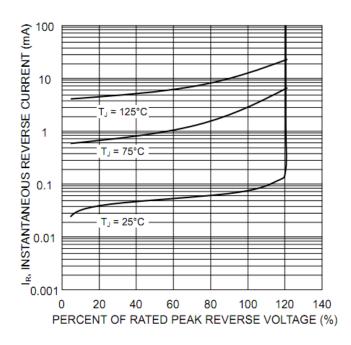


Fig. 4 Maximum Non-repetitive Peak Fwd Surge