SB5150L

Excellent Schottky Rectifier

REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 5.0 Amperes

FEATURES

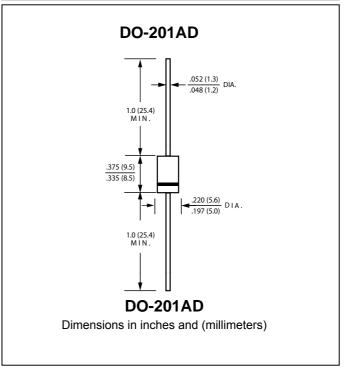
- · Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- Excellent Schottky technology

MECHANICAL DATA

· Case: DO-201AD

· Polarity: Cathode Band

Weight: Approximated 1.071 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Characteristics	Symbol	Value		Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150		V
RMS Reverse Voltage	V_{RMS}	105		V
Forward Voltage Drop I _F =1A (T _J =25°ℂ)	V_{F}	Typ. 0.61	Max. -	V
I _F =5 A (T _J =25°C)		-	0.85	
Maximum Reverse Current at Rated V_{RRM} T_J =25°C T_J =100°C	I _R	Max. 200 0.5		μA mA
Maximum Average Forward Rectified Current Total device	I _F	5		А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100		А
Peak Repetitive Reverse Current at tp=2 µs, 1 kHz,	I _{RRM}	1.0		Α
Operating and StorageTemperature Range	$T_{J,}T_{STG}$	-55 to +150		°C

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Rating and Characteristic Curves

FIG. 1-Typical Forward Current Derating Curve

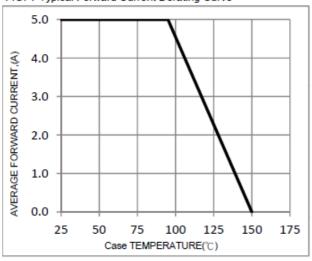


FIG. 2-Typical Forward Characteristics

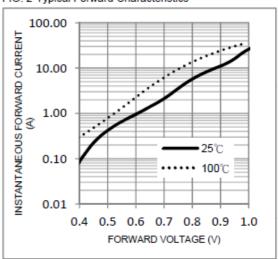


FIG. 3-Maximum Non-Repetitive Forward Surge Current

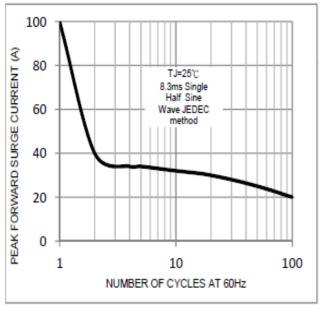
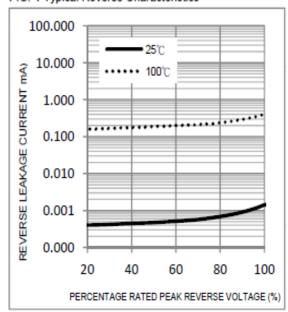


FIG. 4-Typical Reverse Characteristics



2