

SB240L

Excellent Schottky Rectifier

REVERSE VOLTAGE - 40 Volts FORWARD CURRENT - 2.0 Amperes

FEATURES

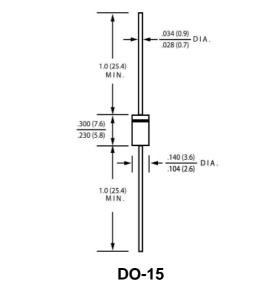
- · Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- · Excellent Schottky technology

MECHANICAL DATA

Case: DO-15

Polarity: Cathode Band

Weight: Approximated 0.336 grams



Dimensions in inches and (millimeters)

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}	40	V
RMS Reverse Voltage	V_{RMS}	28	V
Forward Voltage Drop		Max.	
@IF=2A, TC=25°C	V _F	0.42	V
Maximum Reverse Current at Rated V _{RRM}		0.5	
T _J =25°C	I _R	25	mA
T _J =100°C		20	
Maximum Average Forward Rectified Current			
Total device	I _F	2	Α
Peak Forward Surge Current,			
8.3 ms Single Half Sine-wave	I _{FSM}	30	Α
Superimposed on Rated Load (JEDEC method)			
MaximumThermalResistance	Ө ЈА	30	°C/W
Operating and StorageTemperature Range	T _{J,} T _{STG}	-65 to +150	°C

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Rating and Characteristic Curves

FIG. 1-Typical Forward Current Derating Curve

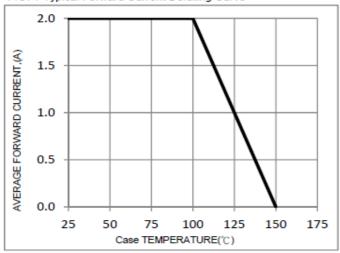


FIG. 2-Typical Forward Characteristics

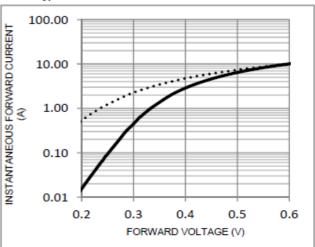


FIG. 3-Maximum Non-Repetitive Forward Surge Current

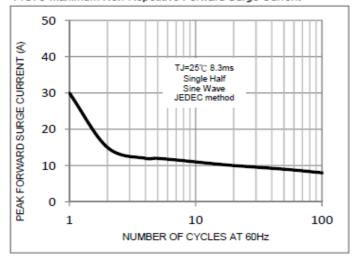
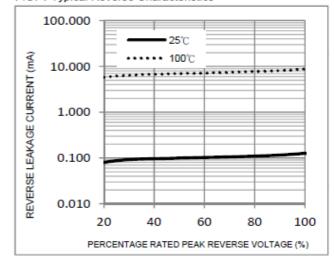


FIG. 4-Typical Reverse Characteristics



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