

SBL830 thru SBL860

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 to 60 Volts FORWARD CURRENT - 8.0 Amperes

FEATURES

- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free whelling, and polarity protection applications

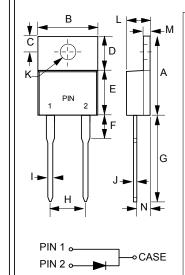
MECHANICAL DATA

Case: TO-220AC molded plastic
Polarity: As marked on the body
Weight: 0.08 ounces, 2.24 grams

• Mounting position : Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

TO-220AC



TO-220AC							
DIM.	MIN. MAX.						
Α	14.22 15.88						
В	9.65	10.67					
С	2.54	3.43					
D	5.84	6.86					
Е	8.26	9.28					
F	-	6.35					
G	12.70	14.73					
Н	4.83	5.33					
I	0.51	1.14					
J	0.30	0.64					
K	3.53 Ø	4.09 Ø					
L	3.56	4.83					
М	1.14	1.40					
N	2.03	2.92					
All Dimensions in millimeter							

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SBL830	SBL835	SBL840	SBL845	SBL850	SBL860	UNIT
Maximum Recurrent Peak Reverse Voltage		30	35	40	45	50	60	V
Maximum RMS Voltage	VRMS	21	24.5	28	31.5	35	42	V
Maximum DC Blocking Voltage	VDC	30	35	40	45	50	60	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=95°C	l(AV)	8						А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	175						Α
Maximum Forward Voltage at 8A DC (Note 1)	VF	0.55 0.70					V	
Maximum DC Reverse Current @TJ =25 at Rated DC Blocking Voltage @TJ =100%	l IR	0.5 50						mA
Typical Junction Capacitance (Note 2)	Сл	450						pF
Typical Thermal Resistance (Note 3)		3.0					°C/W	
Operating Temperature Range		-55 to +125					.c	
Storage Temperature Range	Тѕтс	-55 to +150				°C		

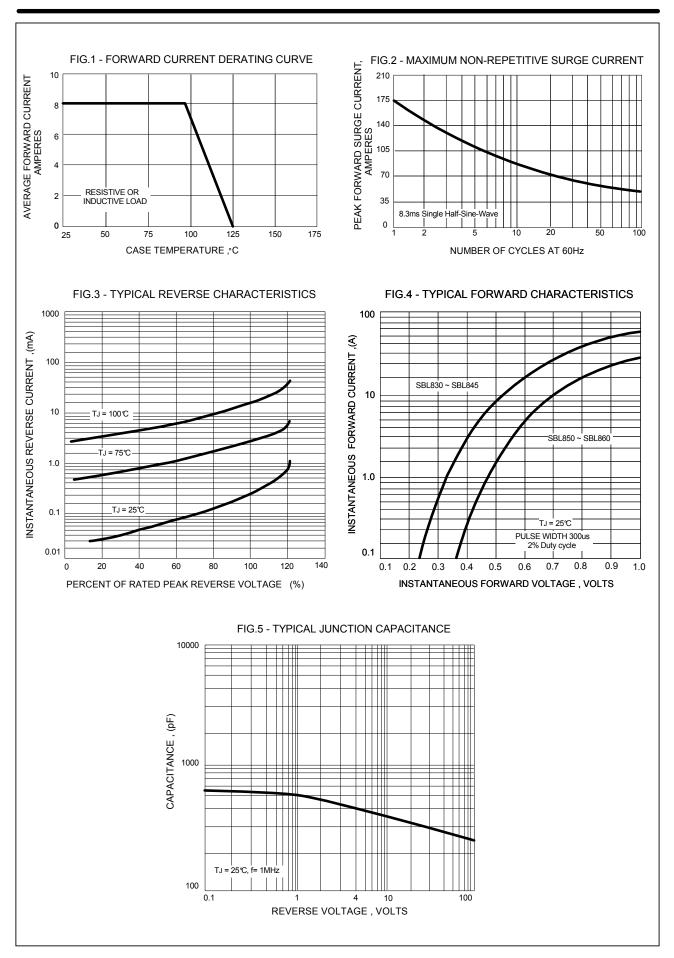
NOTES: 1. 300us Pulse Width, 2% Duty Cycle.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Case.

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