

Power Schottky Rectifier - 10Amp 40~60Volt

Features

- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- High Junction Temperature Capability
- Low forward voltage, high current capability
- High surge capacity
- Low power loss, high efficiency

Mechanical data

- Switching-Mode Power Supply
- Solar-System Control Box

Maximum ratings and Electrical characteristics

Parameters	SBL1040D	SBL1060D	UNIT
Maximum Recurrent Peak Reverse Voltage	40	60	V
Maximum RMS Voltage	28	42	V
Maximum DC Blocking Voltage	40	60	V
Maximum Average Forward Rectified Current	10		A
Peak Forward Surge Current	120		A
Maximum Instantaneous Forward Voltage Per Leg at $I_F = 5A$	$T_c = 25^\circ C$	0.55	V
	$T_c = 125^\circ C$	0.44	
Maximum Average Reverse Current at Rated DC Blocking Voltage	$T_c = 25^\circ C$	1.0	
	$T_c = 125^\circ C$	20	
Typical Junction Capacitance	250		pF
Typical Thermal Resistance $R_{\theta(j-c)}$	3.0		$^\circ C/W$
Operating and Storage Temperature Range	-50 to +150		$^\circ C$

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SBL1040D ~ SBL1060D

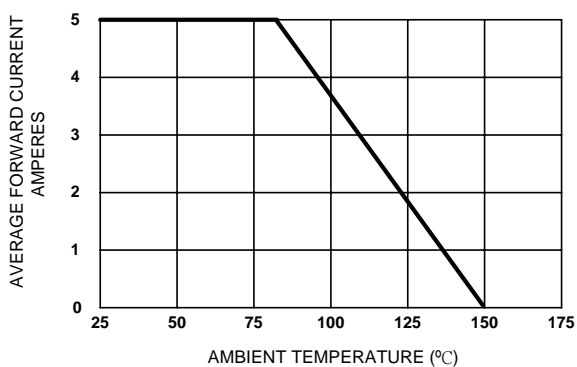


Figure 1. Forward Current Derating Curve

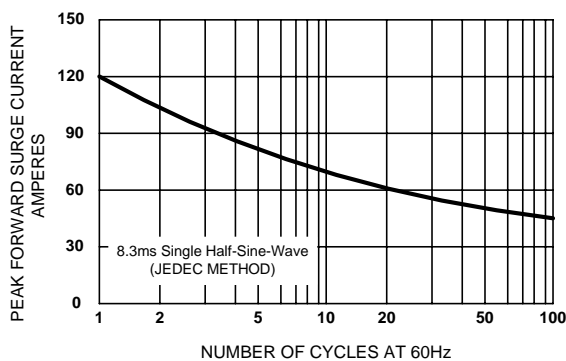


Figure 2. Maximum Non-repetitive Surge Current

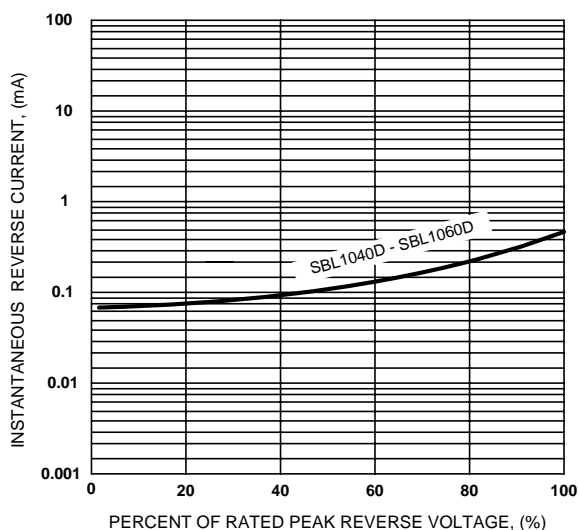


Figure 3. Typical Reverse Characteristics

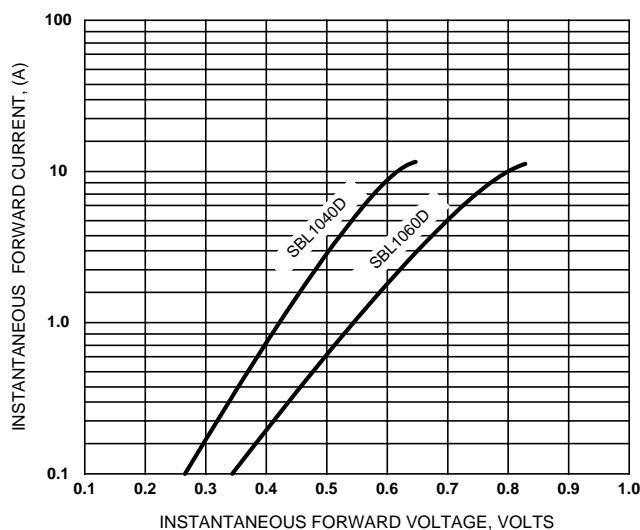


Figure 4. Typical Forward Characteristics

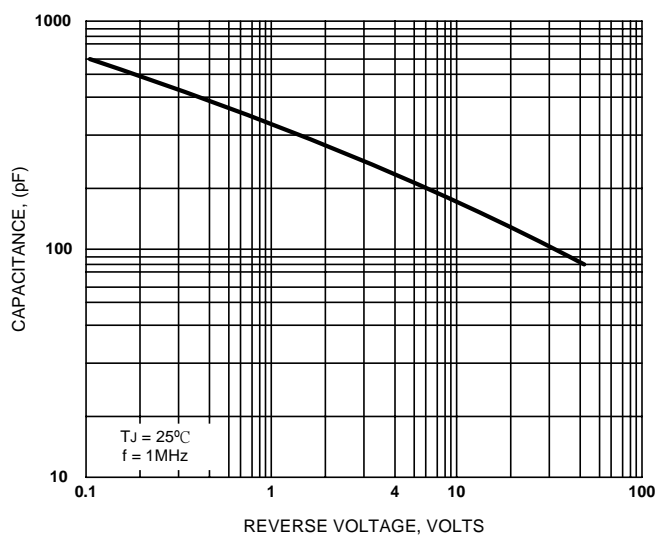


Figure 5. Typical Junction Capacitance

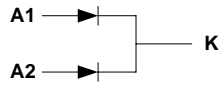
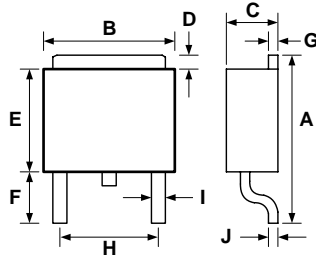


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SBL1040D~SBL1060D

T0-252 / D-Pak



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.354	.394	9.00	10.00	
B	.248	.263	6.30	6.70	
C	.083	.098	2.10	2.50	
D	.031	.051	0.80	1.30	
E	.224	.244	5.70	6.20	
F	.094	.114	2.40	2.90	
G	.016	.023	0.40	0.60	
H	.169	.185	4.30	4.70	
I	.026	.039	0.65	1.00	
J	.016	.023	0.40	0.60	