

SBL6030PT thru 6060PT

SCHOTTKY BARRIER RECTIFIERS

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

TO-3P

FEATURES

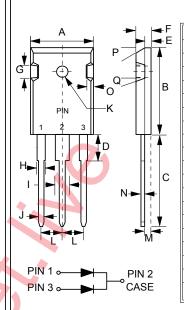
- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free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

MECHANICAL DATA

Case: TO-3P molded plastic
Polarity: As marked on the body
Weight: 0.2 ounces, 5.6 grams

• Mounting position : Any

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



TO-3P						
DIM.	MIN. MAX.					
Α	15.75	16.25				
В	21.25	21.75				
С	19.60	20.10				
D	3.78	4.38				
Е	1.88	2.08				
F	4.87	5.13				
G	4.4TYP.					
Н	1.90	2.16				
I	2.93	3.22				
J	1.12	1.22				
K	2.90 Ø	3.20 Ø				
L	5.20	5.70				
М	2.10	2.40				
N	0.51	0.76				
0	1.93	2.18				
Р	20°TYP					
Q	10°TYP					
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

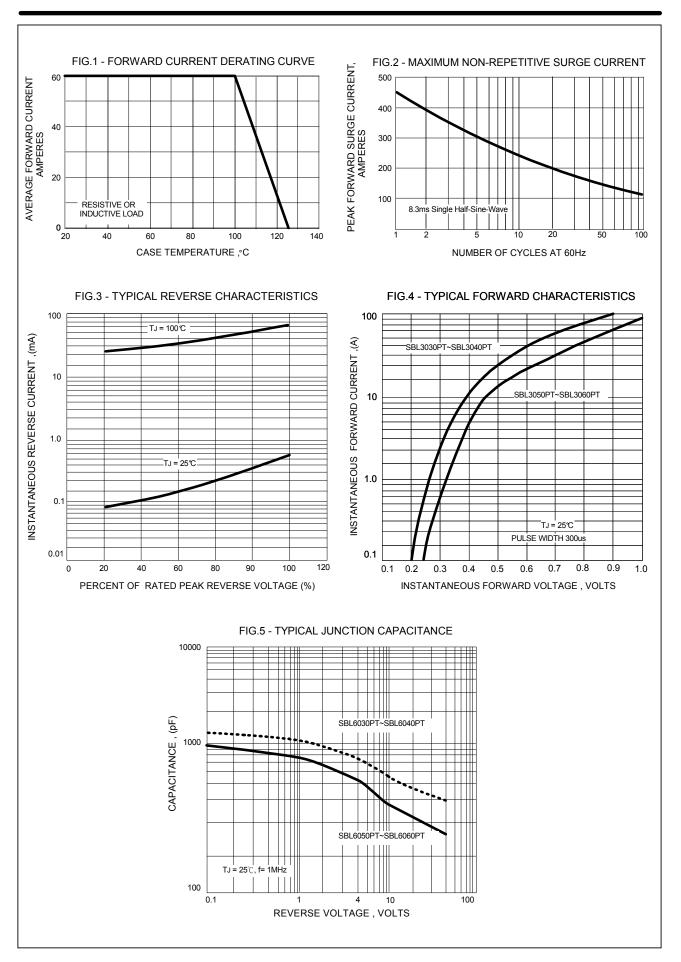
CHARACTERISTICS	SYMBOL	SBL6030PT	SBL6040PT	SBL6050PT	SBL6060PT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	30	40	50	60	V
Maximum RMS Voltage	VRMS	21	28	35	42	V
Maximum DC Blocking Voltage	VDC	30	40	50	60	V
Maximum Average Forward Rectified Current @Tc =100°C	l(AV)		6	0		А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	450			Α	
Maximum forward Voltage at 30A DC @TJ =25°C	VF	0.55 0.70).70	٧	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 25°C @TJ = 100°C	lr	10 200				mA
Typical Junction Capacitance per element (Note1)	Сл	1	000		550	pF
Typical Thermal Resistance (Note 2)	Rejc	0.5			°C/W	
Operating Temperature Range	TJ	-55 to +125			°C	
Storage Temperature Range	Тѕтс	-55 to +150				°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0VDC.

2.Thermal Resistance Junction to Case.

REV. 6, Oct-2010, KTHD13







Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.