

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SBL6030PT - SBL6060PT

60A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

Case: TO-3P

Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Moisture Sensitivity: Level 1 per J-STD-020C

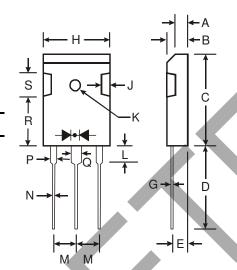
Terminals: Finish - Bright Tin. Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

Ordering Information: See Last Page

Marking: Type Number

Weight: 5.6 grams (approximate)



TO-3P					
Dim	Min	Max			
Α	1.88	2.08			
В	4.87	5.13			
С	21.25	21.75			
D	19.60	20.10			
Ε	2.10	2.40			
G	0.51	0.76			
Н	15.75	16.25			
J	1.93	2.18			
K	2.90Ø	3.20∅			
L	3.78	4.38			
М	5.20	5.70			
N	1.12	1.22			
Р	1.90	2.16			
Q	2.93	3.22			
R	11.70	12.80			
S	4.40 Typical				
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SBL 6030PT	SBL 6040PT	SBL 6050PT	SBL 6060PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	40	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	28	35	42	V
Average Rectified Output Current @ T _C = 100°C (Note 1)	lo	60			А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}		50	00		А
Forward Voltage Drop @ $I_F = 30A$, $T_C = 25^{\circ}C$	V_{FM}	0.	55	0.	70	V
Peak Reverse Current $@T_C = 25^{\circ}C$ at Rated DC Blocking Voltage $@T_C = 100^{\circ}C$	I _{RM}	20 200			mA	
Typical Total Capacitance (Note 2)	Ст		15	500		pF
Typical Thermal Resistance Junction to Case (Note 1)	$R_{ heta Jc}$	0.5			°C/W	
Operating and Storage Temperature Range	T_{j} , T_{STG}	-65 to +150			°C	

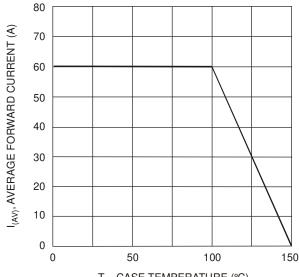
Notes:

Thermal resistance junction to case mounted on heatsink. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

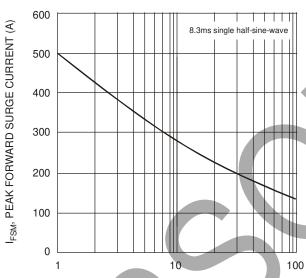
RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.



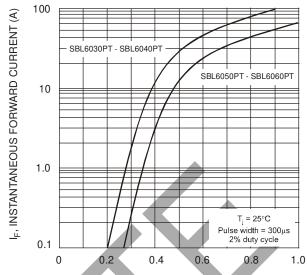
PART OBSOLETE – NO ALTERNATE PART

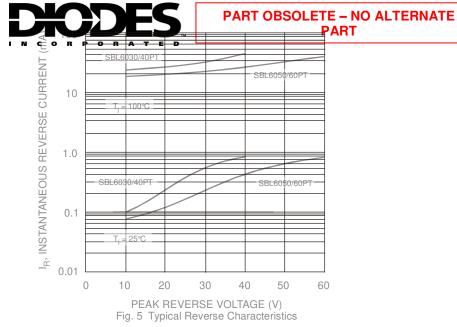


T_C, CASE TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60Hz Fig. 3 Max Non-Repetitive Forward Surge Current





Ordering Information

Device	Packaging	Shipping
SBL6030PT	TO-3P	30/Tube
SBL6040PT	TO-3P	30/Tube
SBL6050PT	TO-3P	30/Tube
SBL6060PT	TO-3P	30/Tube

4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf.

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PART OBSOLETE - NO ALTERNATE

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