

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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DECDES.

SBL4030PT - SBL4060PT

40A SCHOTTKY BARRIER RECTIFIER

Features

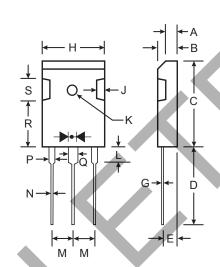
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application
- Lead 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. Plated Leads 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	4.68	5.36				
С	20.63	22.38				
D	18.5	21.5				
E	2.1	2.4				
G	0.51	0.76				
Н	15.38	16.25				
J	1.90	2.70				
K	2.9∅	3.65∅				
L	3.78	4.50				
M	5.2	5.7				
N	0.89	1.53				
Р	1.82	2.46				
Q	2.92	3.23				
R	11.70	12.84				
S	_	6.10				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics

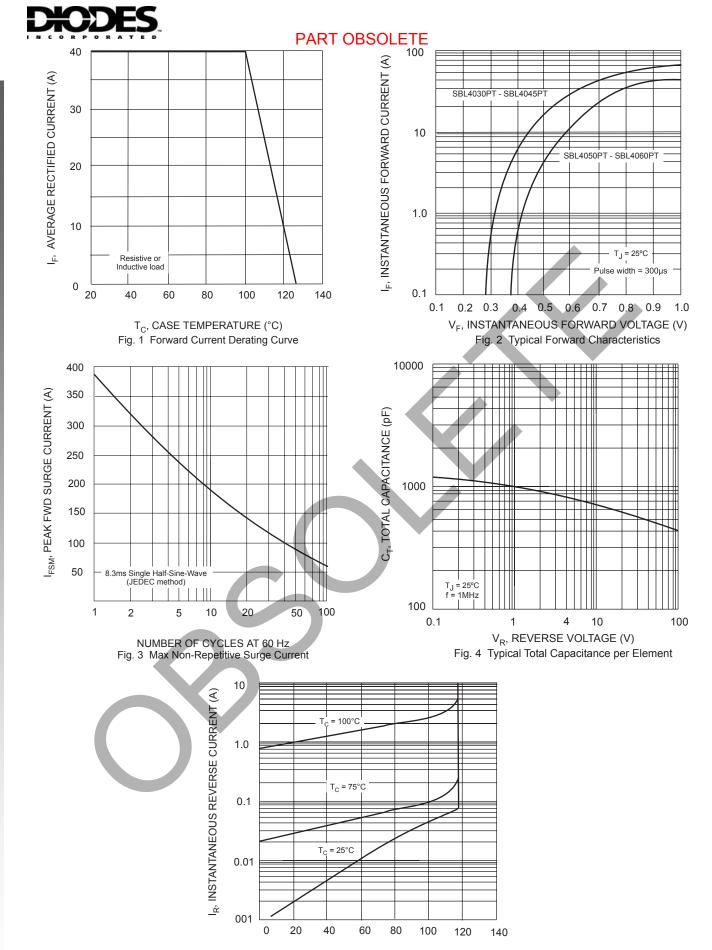
@ T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	SBL 4030PT	SBL 4035PT	SBL 4040PT	SBL 4045PT	SBL 4050PT	SBL 4060PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current @ T _C = 100°C (Note 1)		40					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}			3	75			А
Forward Voltage Drop @ I _F = 20A, T _C = 25°C	V _{FM}		0.	58		0.	70	V
	I _{RM}				.0 00			mA
Typical Total Capacitance (Note 2)	C _T			80	00			pF
Typical Thermal Resistance Junction to Case (Note 1)	R _θ JC			1	.4			°C/W
Operating Temperature Range		-55 to +125				°C		
Storage Temperature Range	T _{STG}			-55 to	+150			°C

Notes:

- 1. Thermal resistance junction to case mounted on heatsink.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



Ordering Information (Note 4)

Device	Packaging	Shipping		
SBL4030PT	TO-3P	30/Tube		
SBL4035PT	TO-3P	30/Tube		
SBL4040PT	TO-3P	30/Tube		
SBL4045PT	TO-3P	30/Tube		
SBL4050PT	TO-3P	30/Tube		
SBL4060PT	TO-3P	30/Tube		

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



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