

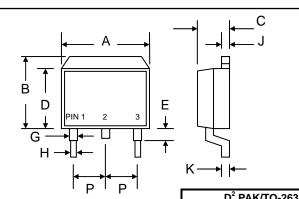
SBL3020DC - SBL3045DC

30A SURFACE MOUNT DUAL SCHOTTKY BARRIER RECTIFIER



Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 200A Peak
- Low Power Loss, High Efficiency
- Fast Switching
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Switching Power Supplies



Mechanical Data

Case: D²PAK/TO-263, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

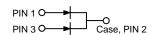
Polarity: See Diagram

Weight: 1.7 grams (approx.)

Mounting Position: Any

Marking: Type Number

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



D- PAK/10-263				
Dim	Min	Max		
Α	9.80	10.40		
В	9.60	10.60		
С	4.40	4.80		
D	8.50	9.10		
E	_	2.80		
G	1.00	1.40		
Н	_	0.99		
J	1.20	1.40		
K	0.30	0.70		
Р	2.35	2.75		
All Dimensions in mm				

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

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

Characteristic	Symbol	SBL 3020DC	SBL 3030DC	SBL 3040DC	SBL 3045DC	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	45	٧
RMS Reverse Voltage	VR(RMS)	14	21	28	32	٧
Average Rectified Output Current Total Device @T _C = 100°C Per Diode	lo	30 15		А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	200		А		
Forward Voltage per diode $@I_F = 15A, T_J = 25^{\circ}C$ $@I_F = 15A, T_J = 125^{\circ}C$	VFM	0.55 0.50		V		
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	IRM	1.0 20		mA		
Typical Junction Capacitance (Note 1)	Cı		7:	50		pF
Thermal Resistance Junction to Ambient (Note 2) Thermal Resistance Junction to Case (Note 2)	R JA R JC		_	0 .5		°C/W
Operating and Storage Temperature Range	TJ, TSTG		-55 to	+150		°C

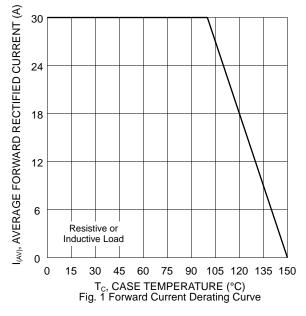
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

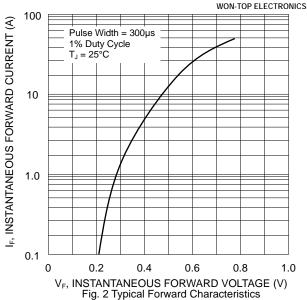
2. Mounted on FR-4 PCB with minimum recommended pad layout per diode.

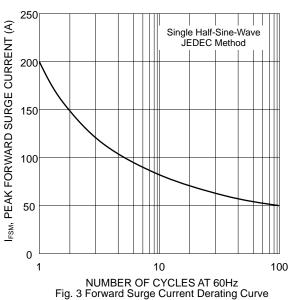
© Won-Top Electronics Co., Ltd. Revision: September, 2012

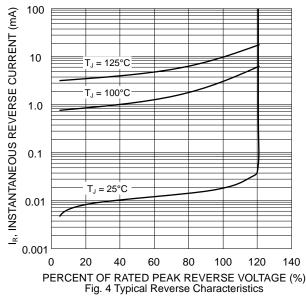
SBL3020DC - SBL3045DC

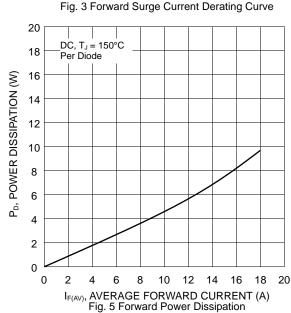


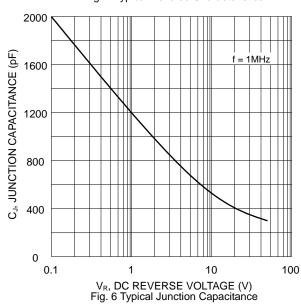








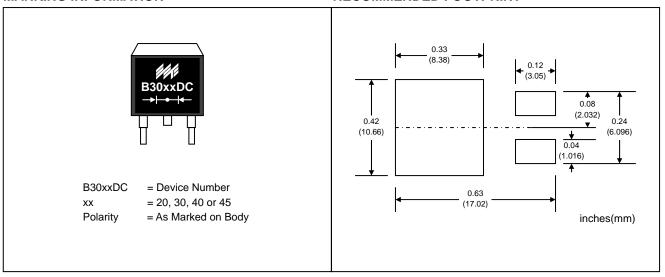




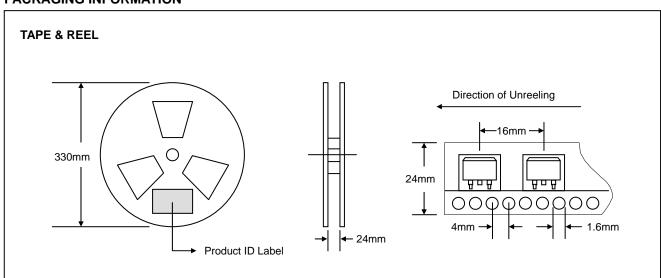


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	800	340 x 337 x 45	800	370 x 370 x 420	6,400	15.0

Note: 1. Paper reel, white or gray color.

© Won-Top Electronics Co., Ltd. Revision: September, 2012 www.wontop.com

^{2.} Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SBL3020DC-T3	D ² PAK	800/Tape & Reel
SBL3030DC-T3	D ² PAK	800/Tape & Reel
SBL3040DC-T3	D ² PAK	800/Tape & Reel
SBL3045DC-T3	D ² PAK	800/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SBL3020DC-T3-LF.

WON-TOP ELECTRONICS and are registered trademarks of Won-Top Electronics Co., Ltd (WTE). WTE has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

Chine Chen Dist., Kaohsiung 806, Taiwan **Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.