

SBL3020FCT – SBL3045FCT

30A DUAL SCHOTTKY BARRIER RECTIFIER

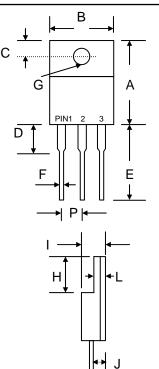


Features

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

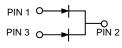
Mechanical Data

- Case: ITO-220, Full Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



Κ

ITO-220				
Dim	Min	Max		
Α	14.60	15.40		
В	9.70	10.30		
С	2.55	2.85		
D	_	4.16		
E	13.00	13.80		
F	0.50	0.75		
G	3.00 Ø	3.50 Ø		
Н	6.30	6.90		
I	4.20	4.80		
J	2.50	2.90		
K	0.50	0.75		
L	2.60	3.30		
Р	2.29	2.79		
All Dimensions in mm				



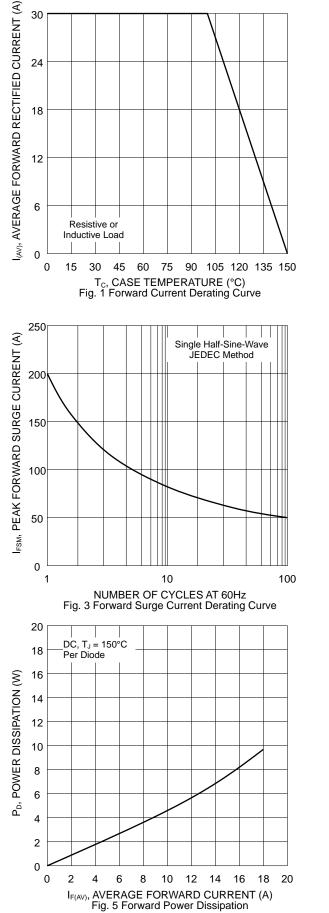
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

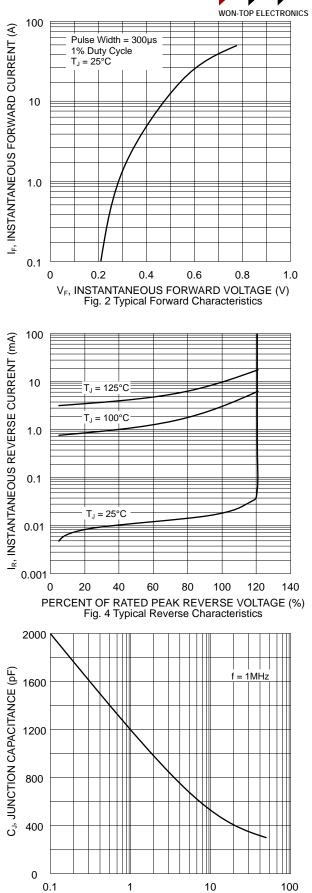
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.						
Characteristic	Symbol	SBL 3020FCT	SBL 3030FCT	SBL 3040FCT	SBL 3045FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	V
RMS Reverse Voltage	VR(RMS)	14	21	28	32	V
Average Rectified Output CurrentTotal Device $@T_c = 100^{\circ}C$ 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			A	
$ \begin{array}{l} \mbox{Forward Voltage per diode} & @I_F = 15A, T_J = 25^\circ C \\ & @I_F = 15A, T_J = 125^\circ C \end{array} $	Vғм	0.55 0.50			V	
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	IRM			.0 :0		mA
Typical Junction Capacitance (Note 1)	Сл	750			pF	
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	52 4.0		°C/W		
RMS Isolation Voltage, t = 1 min	Viso	1500			V	
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.

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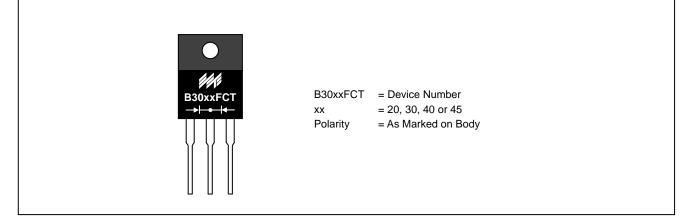
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V_R, DC REVERSE VOLTAGE (V)

Fig. 6 Typical Junction Capacitance



MARKING INFORMATION



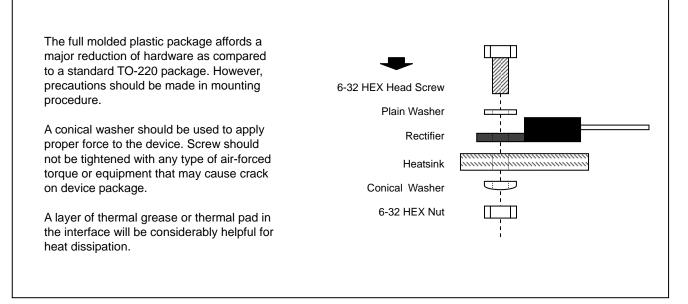
PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT





Product No.	Package Type	Shipping Quantity
SBL3020FCT	ITO-220	50 Units/Tube
SBL3030FCT	ITO-220	50 Units/Tube
SBL3040FCT	ITO-220	50 Units/Tube
SBL3045FCT	ITO-220	50 Units/Tube

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SBL3020FCT-LF.

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