

SB4020FCT – SB40100FCT

40A DUAL SCHOTTKY BARRIER RECTIFIER

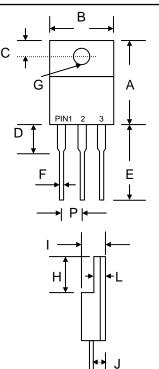


Features

- 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

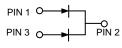
Mechanical Data

- 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					

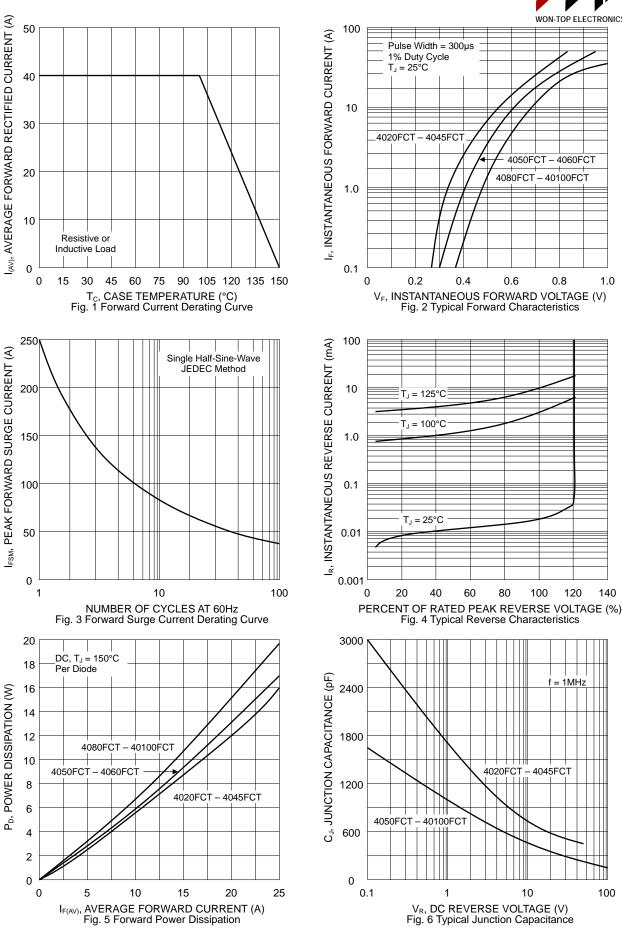


Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.										
Characteristic	Symbol	SB 4020FCT	SB 4030FCT	SB 4040FCT	SB 4045FCT	SB 4050FCT	SB 4060FCT	SB 4080FCT	SB 40100FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output CurrentTotal Device@Tc = 100°CPer Diode					-					
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	250				А				
Forward Voltage per diode @I _F = 20A, T _J = 25°C @I _F = 20A, T _J = 125°C	Vгм	0.70 0.75 0.85 0.60 0.65 0.75					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)	CJ	1100 650						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, TS⊺G	-55 to +150						°C		

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

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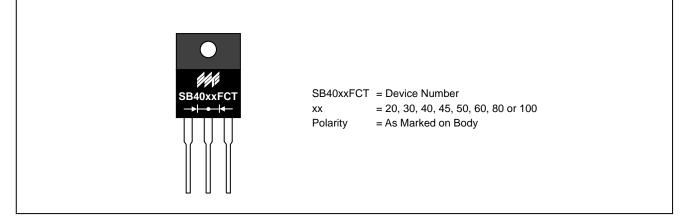
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MARKING INFORMATION



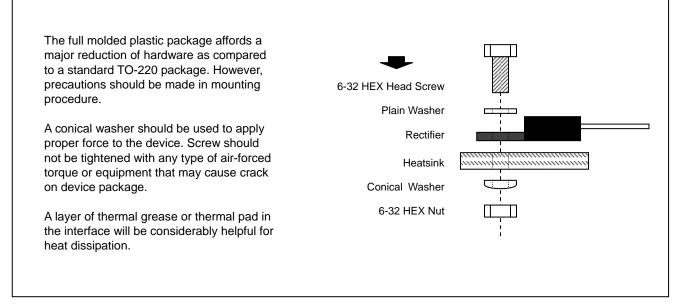
PACKAGING INFORMATION

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
SB4020FCT	ITO-220	50 Units/Tube
SB4030FCT	ITO-220	50 Units/Tube
SB4040FCT	ITO-220	50 Units/Tube
SB4045FCT	ITO-220	50 Units/Tube
SB4050FCT	ITO-220	50 Units/Tube
SB4060FCT	ITO-220	50 Units/Tube
SB4080FCT	ITO-220	50 Units/Tube
SB40100FCT	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, SB4020FCT-LF.

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