

SB1020FCT - SB10100FCT

10A ISOLATION SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- High Current Capability, Low Forward
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

Case: ITO-220 Full Molded Plastic

Terminals: Plated Leads Solderable per

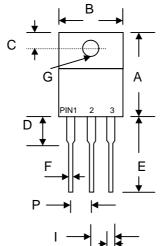
MIL-STD-750, Method 2026

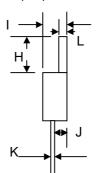
Polarity: As Marked on Body

Weight: 2.24 grams (approx.)

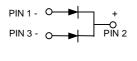
Mounting Position: Any

Marking: Type Number





ITO-220					
Dim	Min	Max			
Α	14.9	15.1			
В	_	10.5			
С	2.62	2.87			
D	3.56	4.06			
Е	13.46	14.22			
F	0.68	0.94			
G	3.74 Ø	3.91 Ø			
Н	5.84	6.86			
ı	4.44	4.70			
J	2.54	2.79			
K	0.35	0.64			
L	1.14	1.40			
Р	2.41	2.67			
All Dimensions in mm					

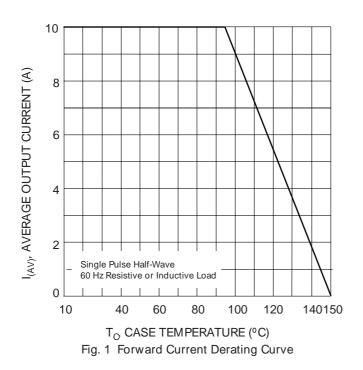


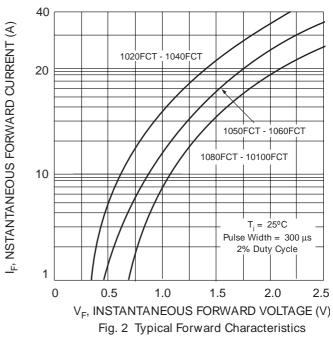
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

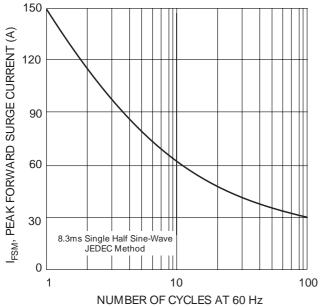
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB 1020FCT	SB 1030FCT	SB 1040FCT	SB 1050FCT	SB 1060FCT	SB 1080FCT	SB 10100FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T _C = 95°C	lo	10					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					А		
Forward Voltage @I _F = 5.0A	VFM	0.55 0.75 0.85		85	٧				
	lгм	0.5 50					mA		
Typical Junction Capacitance (Note 1)	Cj	700					pF		
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150					°C		

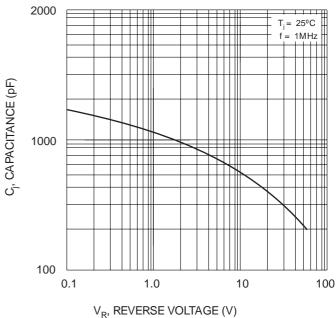
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.







NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current



V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB1020FCT	ITO-220	50 Units/Tube
SB1030FCT	ITO-220	50 Units/Tube
SB1040FCT	ITO-220	50 Units/Tube
SB1050FCT	ITO-220	50 Units/Tube
SB1060FCT	ITO-220	50 Units/Tube
SB1080FCT	ITO-220	50 Units/Tube
SB10100FCT	ITO-220	50 Units/Tube

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

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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.

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