

肖特基二極管

SB820FCT - SB8100FCT

10A Dual Schottky Barrier Rectifier

Figure

□ Electrical Symbol

☐ Feature

◆ Schottky Barrier Chip

- ◆ Guard Ring for Transient Protection
- ◆ Low Forward Voltage Drop
- ◆ Low Reverse Leakage Current
- ♦ High Surge Current Capability
- ◆ Plastic Material has UL Flammability Classification 94V-0



◆ Case: ITO-220, Full Moldes Plastic

◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

(mm)

◆ Polarity: See Diagram

◆ Weight: 2.24 grams (approx)

Mounting Position: Any

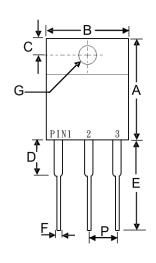
◆ Mounting Torque: 11.5 cm-kg (10 in-lbs) max.

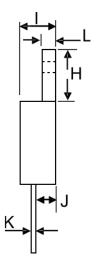
◆ Lead Free: For **RoHS** / Lead Free Version Add "-LF" Suffix to part Number.

Pin 1 Pin 3 Case Pin 2

☐ **Dimension** Case: ITO-220

Dim.	Min.	Max.
А	14.6	15.4
В	9.7	10.3
С	2.55	2.85
D	2.7	3.3
Е	13.0	13.8
F	0.5	0.75
G (Φ)	3.0	3.5
Н	6.3	6.9
I	4.2	4.8
J	2.5	2.9
K	0.5	0.75
ı	2.7	2.15





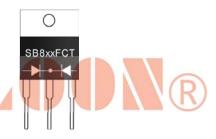
2.29

SB8xxFCT = Device Number

2.79

xx = See Page 2

Polarity = As Marked Body







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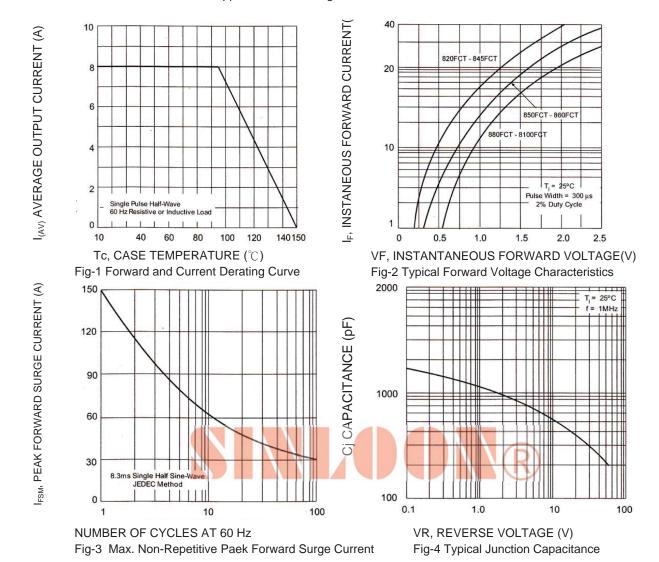
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Maximum Ratings and Electrical Characteristics @T_A=25℃ unless otherwise specified

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

Characteristics	Symbol	SB	SB	SB	SB	SB	SB	SB	SB	Unit
Characteristics		820FC	830FC	840FC	845FC	850FC	860FC	880FC	8100FC1	Unit
Peak Repetitive Reverse Voltage	V_{RRM}									
Working Peak Reverse Voltage	V_{RWM}	20	30	40	45	50	60	80	100	V
DC Blocking Voltage	V_R									
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	32	35	42	56	70	V
Average Rectified Output Current	Io		8.0			8.0		8	3.0	Α
Non-Repetitive Peak Forward Surge										
Current 8.3ms Single half sine-wave	I_{FSM}		150			150		1	50	Α
superimposed on rated load (JEDEC										
Forward Voltage @I _F =4.0A	V_{FM}	0.55		0.75		0.85		V		
Peak Reverse Current @T _A = 25°C	I _{RM}	0.5				Л				
At Rated DC Blocking Vol. @T _A =100°(50					mA			
Typical Junction Capacitance (Note 1)	C _i	700				рF				
Operating and Storage Temperature Rang	T_{j},T_{STG}	-65 to +150					$^{\circ}\!\mathbb{C}$			

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







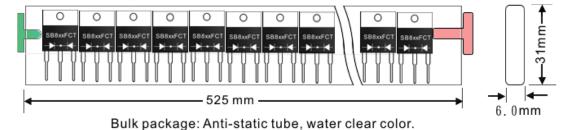
<u>肖特基二極管</u> Case: ITO-220 **SB820FCT - SB8100FCT**

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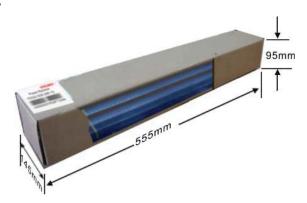
☐ Packaging Information

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Gross
LxWxH (mm)	(Pcs)	LxWxH (mm)	(Pcs)	LxWxH (mm)	(Pcs)	Weight
525 x 31 x6	50	555x145x95	2000	572x306x218	8000	19.0kg

Anti-static tube:



Inner Box:



Carton Package:







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☐ Package Mounting Guide

It is important that the packages are correctly mounted if full functionality is to be achieved. Mounting of the package to a heat sink must be done such that there is sufficient pressure from the mounting screws to insure good contact with the heat sink for efficient heat flow. Incorrect mounting may lead to both thermal and mechanical problems. Over tightening the mounting screws will cause the package to warp reducing the contact area with the heat sink and increasing the thermal resistance from the package case to the heat sink, resulting in higher operating die temperatures. Extreme over tightening of the mounting screws beyond the recommended torque force will cause severe physical stress resulting in cracked die and catastrophic IC failure. Though the reliability of the package is excellent, the use of inappropriate techniques or unsuitable tools during the mounting process can affect the long term reliability of the device and even damage it.

Recommended Screw Mount Arrangement (1) (1) 6-32 HEX Head Screw (2) Plain Washer (3) Rectifier (4) Heatsink (5) Conical Washer (6) 6-32 HEX Nut

- ◆ The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precaution should be made in mounting procedure.
- ♦ A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced toque or equipment that may cause crack on device package.
- ◆ A layer of thermal grease or thermal pad in the interface will be considerably helpful for heat dissipation.

^{*}Mayloon characteristic parameters of electronic product specification changes or updates without notice to improve •



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