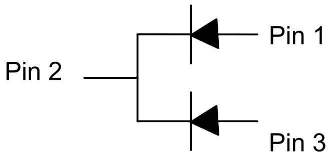
SINLOON®
POWER SEMICONDUCTORS

SB10150FCT

10A High Voltage Dual Schottky Barrier Rectifier

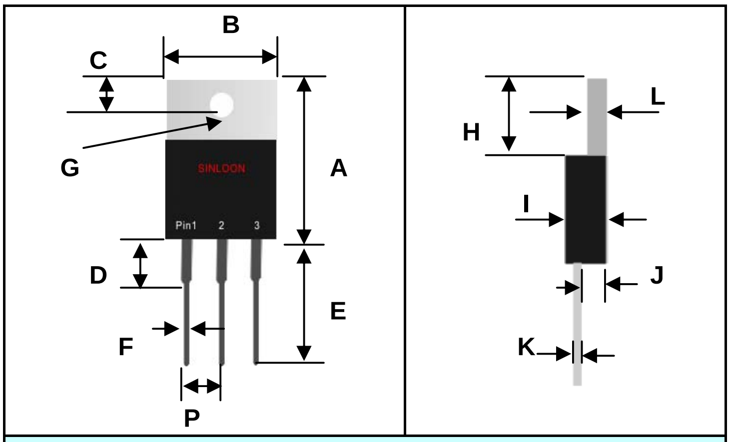
FEATURE:

- 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



MECHANICAL DATA

- Cass: ITO-220, Full Molded Plastic.
- Terminals: Plated Leads Solder able per MIL-STD-202 Method 208.
- 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, See Data.



ITO-220		
Dim.	Min.	Max.
A	14.60	15.40
B	9.70	10.30
C	2.55	2.85
D	3.560	4.160
E	13.00	13.80
F	0.30	0.90
G	Φ3.00	Φ3.50
H	6.300	6.900
I	4.200	4.800
J	2.500	2.900
K	0.360	0.800
L	2.900	3.300
P	2.290	2.790
All Dimensions in mm		

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS @TA = 25℃ unless otherwise specified

Characteristic		Symbol	SB10150FCT	Unit
Peak Repetitive Reverse Voltage		VRRM	150	V
Working Peak Reverse Voltage		VRWM		
DC Blocking Voltage		VR		
RMS Reverse Voltage		VR(RMS)	105	V
Average Rectified Outpot Current @Tc=105℃		IO	10.0	A
Non-Repetitive Peak Forward Sutge Current		IFSM	150	A
8.3ms Single half sine-wave superimposed on				
rated load (JEDEC Method)				
Forward Voltage	@IF=8.0A	VFM	0.92	V
Peak Reverse Current	@TA=25℃	IRM	0.5	uA
At Rated DC Blocking Voltage	@TA=125℃		50	
Reverse Recovery Time (Note 2)		Cj	700	pF
Storage Temperature Range		Tj, TSTG	-55 to +150	℃

Note: 1). *Measure at 1.0 MHz and Applied reverse voltage of 4.0V.DC.*

RoHS Compliant
品質承諾標誌
Quality Commitment

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DATA CURVE

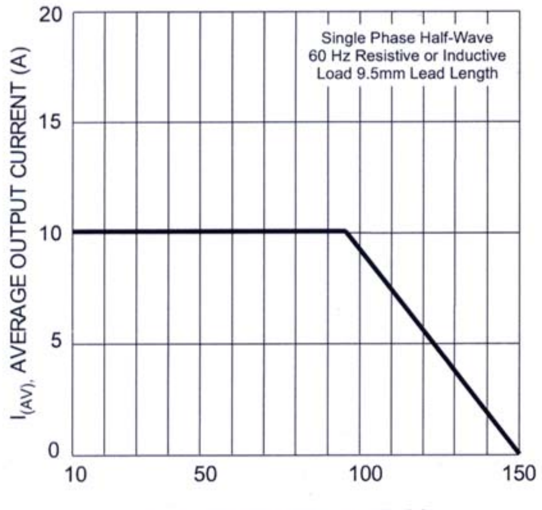

Fig. 1 Forward Current Derating Curve

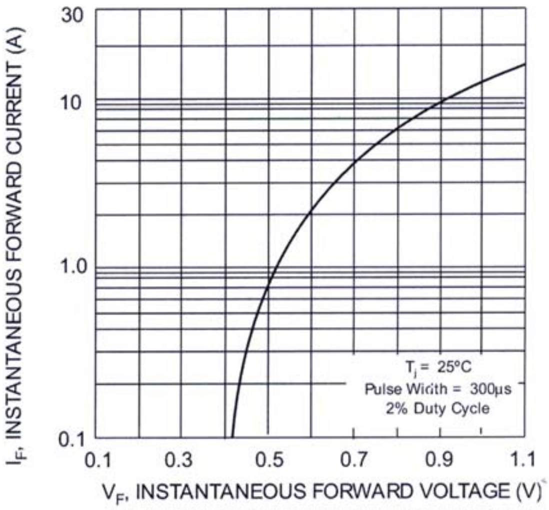

Fig. 2 Typical Forward Voltage Characteristics

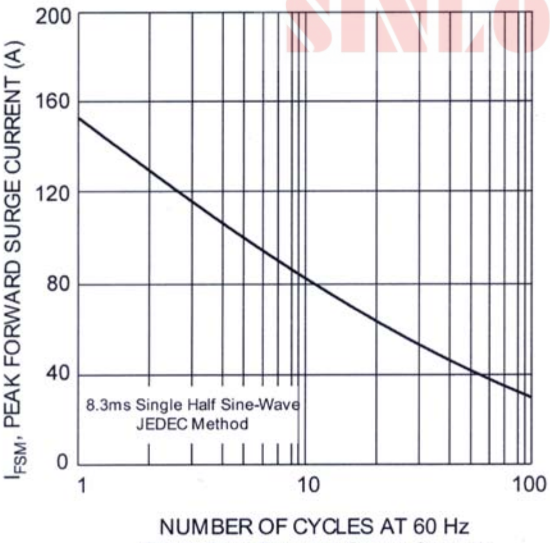

Fig. 3 Peak Forward Surge Current

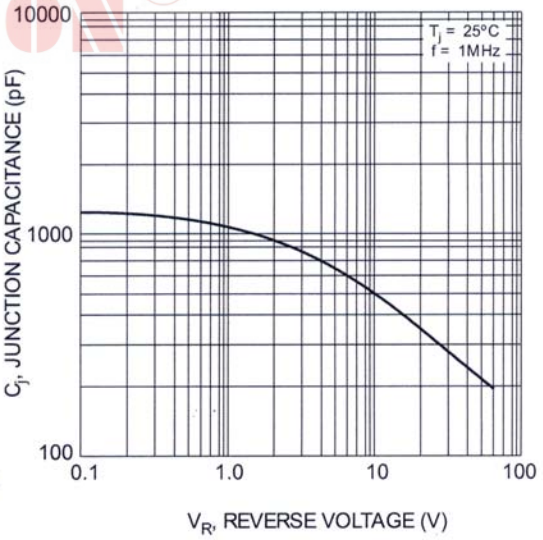

Fig. 4 Typical Junction Capacitance

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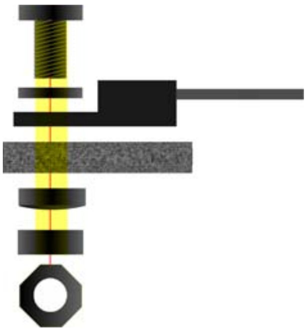
RECOMMENDED SCREW MOUNTING ARRANGEMENT

- The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions 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 torque 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

ITO-220

6-32 HEX Head Screw
↓
Plain Washer
↓
Recitifer Diode
↓
Heastsink
↓
Conical Washer
↓
6-32 HEX Nut



MARKING INFORMATION

XXX = Marking Logo
SB10150CT = Device Number
XX = 150FCT
Ploarity = As Marked on body.

PACKAGING INFORMATION

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
LxWXH (mm)	(Pcs)	LxWXH (mm)	(Pcs)	LxWXH (mm)	(Pcs)	(Kg)
525x31x6	50	555x145x95	2000	572x306x218	8000	19

PACKAGING INFORMATION

Product No.	Package Type	Carton Quantity
SB10150FCT	IT0-220	50 Units/Tube

1). Ordering Information
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 uimper above. For example. SB10150FCT-LF