SINLOON®

肖特基二極管 SB10150CT - SB10200CT

Case: TO-220 10A High Voltage Dual Schottky Barrier Rectifier

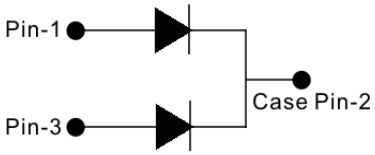
☐ Feature

Figure

- ◆ 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

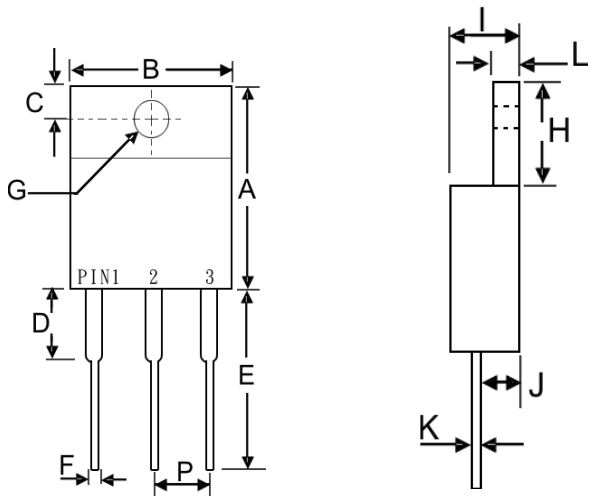
- ◆ Case: TO-220, Molded Plastic
- ◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- ◆ Polarity: See Diagram
- ◆ Weight: 2.24 grams (approx)
- ◆ Mounting Position: Any
- ◆ Mounting Torque: 11.5 cm-kg (10 in-lbs) max.
- ◆ Lead Free: For RoHS / Lead Free Version Add “-LF” Suffix to part Number.



☐ Dimension

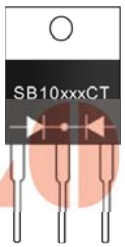
Case: TO-220 (mm)

Dim.	Min.	Max.
A	13.9	15.9
B	9.8	10.7
C	2.54	3.43
D	3.56	4.56
E	12.7	14.73
F	0.51	0.96
G (Φ)	3.55	4.09
H	5.75	6.85
I	4.16	5.0
J	2.03	2.92
K	0.3	0.65
L	1.14	1.4
P	2.29	2.79



☐ Marking Information

SB10xxxCT = Device Number
xxx = SB10150CT
= SB10200CT
Polarity = As Marked Body



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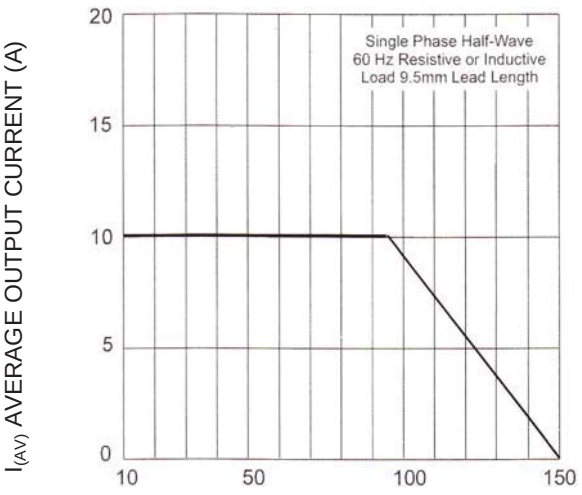
☐ Maximum Ratings and Electrical Characteristics @T_A=25℃ unless otherwise specified

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

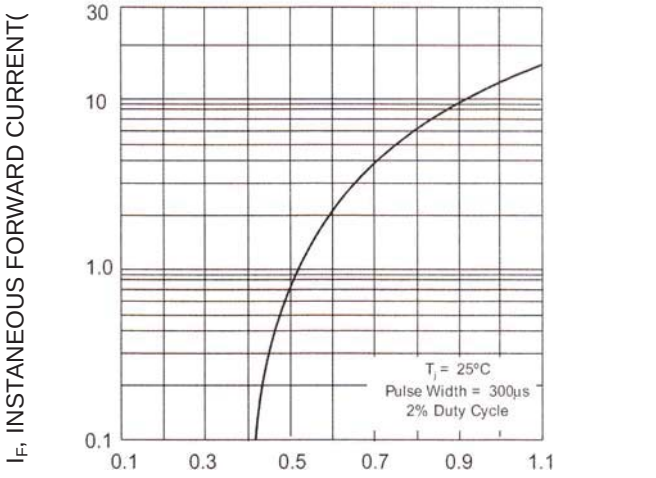
Characteristics	Symbol	SB 10150CT	SB 10200CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	150	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	105	140	V
Average Rectified Output Current @T_C=95℃	I_O	10	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150	150	A
Forward Voltage @I_F=5.0A	V_{FM}	0.92	0.92	V
Peak Reverse Current @T_A = 25℃	I_{RM}	0.5		mA
At Rated DC Blocking Vol. @T_A=100℃		50		
Typical Junction Capacitance (Note 1)	C_j	700		pF
Operating and Storage Temperature Range	T_j,T_{STG}	-65 to +150		℃

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



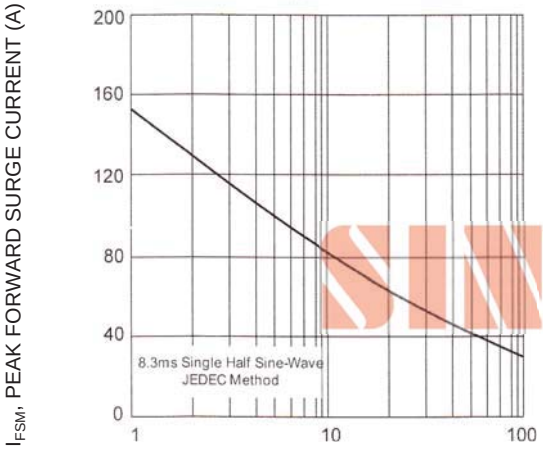
Tc, CASE TEMPERATURE (℃)

Fig-1 Forward and Current Derating Curve



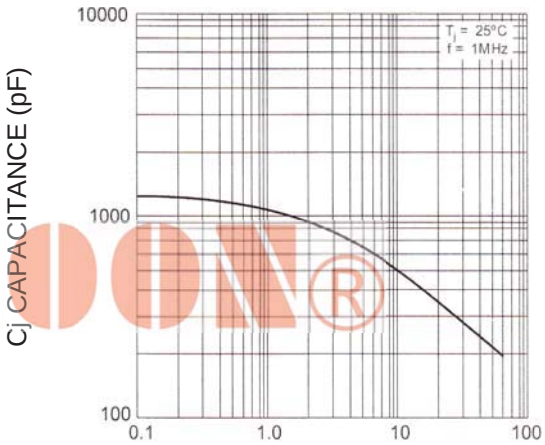
V_F, INSTANTANEOUS FORWARD VOLTAGE(V)

Fig-2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz

Fig-3 Maximum Non-Repetitive Paek FWD Surge Current



VR, REVERSE VOLTAGE (V)

Fig-4 Typical Junction Capacitance

RoHS Compliant
品質承諾標誌
QUALITY COMMITMENT

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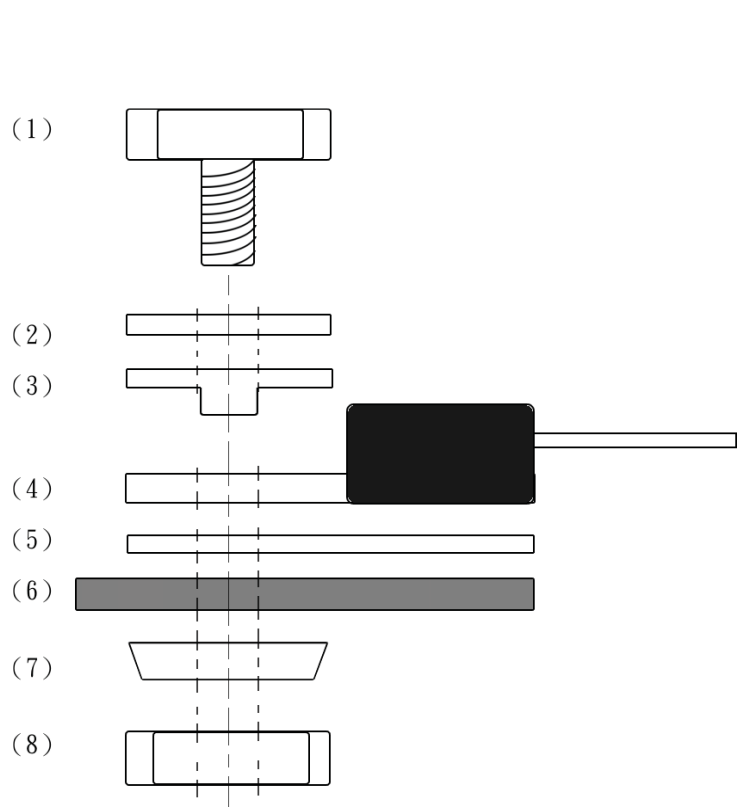
☐ Packaging Information

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

☐ Recommended Screw Mount Arrangement



(1) 4-40 Pan or HEX Head Screw

(2) Plain Washer

(3) Insulating Bushing

(4) Rectifier

(5) Insulator

(6) Heat sink

(7) Compression Washer

(8) 4-40 HEX Nut

◆ Recommended isolated mounting when screw is at heat sink potential 4-40 hardware is used.

◆ Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package. The insulating bushing inside the mounting hole will insure the screw threads do not contact the metal base.

◆ The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation

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※Mayloon characteristic parameters of electronic product specification changes or updates without notice to improve 。