

SINLOON®

肖特基二極管

Case: TO-263

SB8150DC - SB8200DC
8.0A High Voltage SMD Dual Schottky Barrier Rectifier

Feature

- ◆ Schottky Barrier Chip
- ◆ Guard Ring Die Construction For Transient Protection
- ◆ Low Forward Voltage Drop
- ◆ Low Power Loss, High Efficiency
- ◆ High Surge Current Capability
- ◆ For Use in Low Voltage, High Frequency Inverters, Free Wheeling and Polarity Protection Applications.

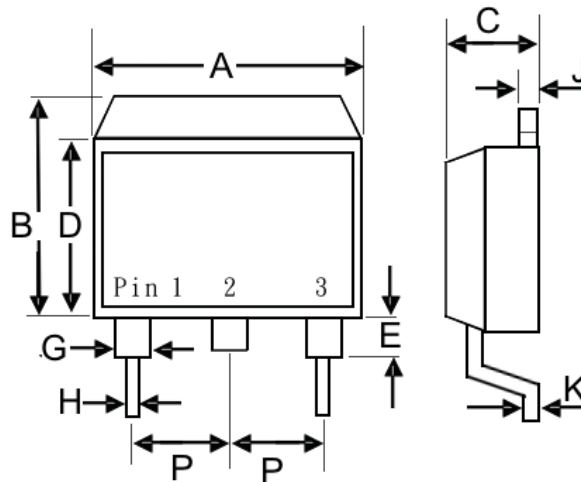
Mechanical Data

- ◆ Case: D²PAK/TO-263, Molded Plastic
- ◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- ◆ Polarity: See Diagram
- ◆ Weight: 1.7 grams (approx)
- ◆ Mounting Position: Any
- ◆ Marking: Type Number
- ◆ Lead Free: For RoHS / Lead Free Version Add "-LF" Suffix to part Number.

Dimension

Case: D²PAK/TO-263 (mm)

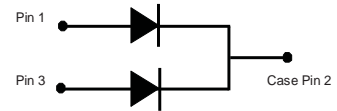
Dim.	Min.	Max.
A	9.8	10.4
B	9.6	10.6
C	4.4	4.8
D	8.5	9.1
E	2.8	---
G	1.0	1.4
H	---	0.9
J	1.2	1.4
K	0.3	0.7
P	2.35	2.75



Figure



Electrical Symbol

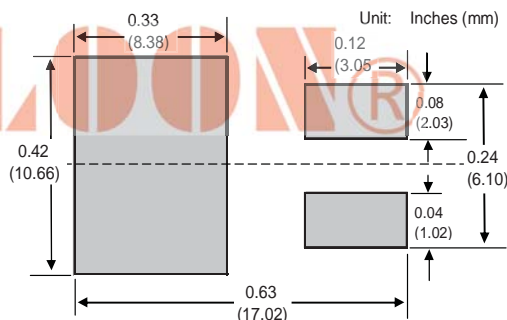


Marking Information

- SB8xxCT = Device Number
- xx = See Page 2 SB Part 150, 200.
- Polarity = As Marked Body



Recommended Footprint



SINLOON®

肖特基二極管

SB8150DC - SB8200DC

Case: TO-263 8.0A High Voltage SMD Dual Schottky Barrier Rectifier

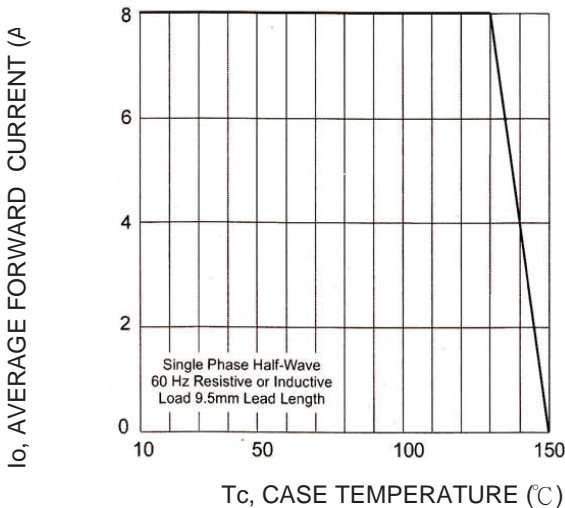
□ Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

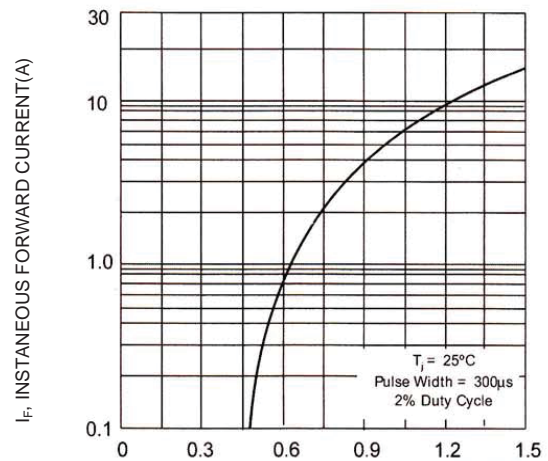
Characteristics	Symbol	SB8150DC	SB8200DC	Unit
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM}	150	200	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{R(RMS)}	105	140	V
Average Rectified Output Current @T _C =130°C	I _O	8.0	8.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC)	I _{FSM}	150	150	A
Forward Voltage @I _F =4.0A	V _{FM}	0.92	0.92	V
Peak Reverse Current @T _A = 25°C	I _{RM}	0.5		mA
At Rated DC Blocking Vol. @T _A =100°C		50		
Typical Junction Capacitance (Note 1)	C _J	400		pF
Typical Thermal Resistance (Note 2)	R _{θJC}	3.0		°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150		°C

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

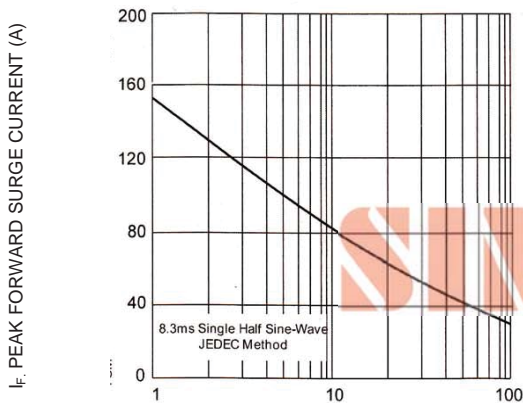
Note 2: Mounfed on minimum recommended pad size on FR-4 board.



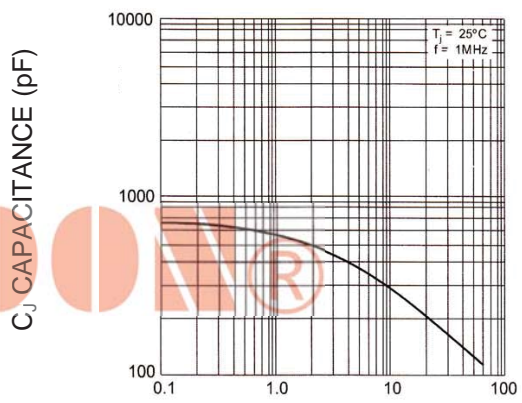
T_C, CASE TEMPERATURE (°C)
Fig-1 Forward and Current Derating Curve



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



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



SINLOON®

肖特基二極管

SB8150DC - SB8200DC

Case: TO-263

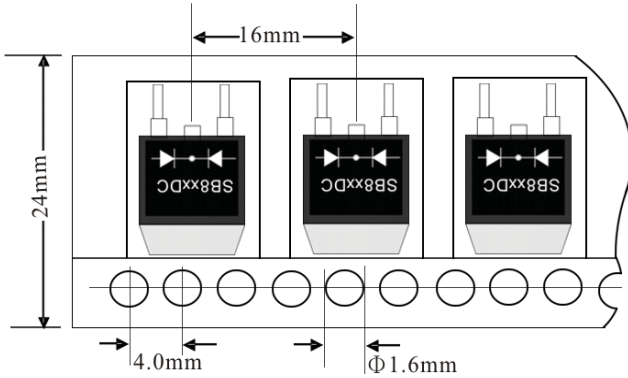
8.0A High Voltage SMD Dual Schottky Barrier Rectifier

Packaging Information

Reel Dimension (mm)	Quantity (Pcs)	Inner Box Size LxWxH (mm)	Quantity (Pcs)	Carton Size LxWxH (mm)	Quantity (Pcs)	Gross Weight
330	800	340x337x45	1600	370x370x420	6400	15Kg

Note: 1. Paper reel. White or gray color,
2. Components are packed in accordance with EIA standard 481-1 and 481-2

Paper Tape



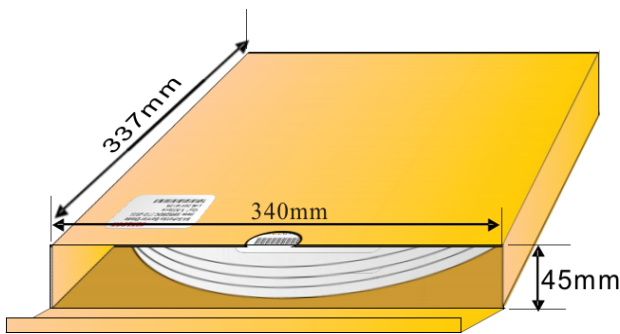
Reel Package

Size: 330 mm



Quantity: 800 pcs

Inner Box



Quantity: 16,000 pcs

Cartons Package



P/No.
C/No.
Quantity: 6,400 pcs
N.W. : 13.5 Kgs
G.W. : 15.0 Kgs

Quantity: 6,400 Pcs

SINLOON®

※美隆公司產品規格及其特性參數的改變或更新恕不另行通知。

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

