

SINLOON®

肖特基二極管

Case: TO-263

SB820DC - SB8100DC

8.0A Surface Mount Dual Schottky Barrier Rectifier

Feature

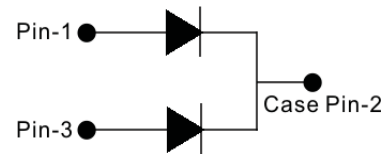
- ◆ Schottky Barrier Chip
- ◆ Guard Ring Die Construction For Transient Protection
- ◆ Low Forward Voltage Drop
- ◆ Low Power Loss, High Efficiency
- ◆ High Surge Current Capability
- ◆ For Use in Low Voltage, High Frequency Inverters, Free Wheeling and Polarity Protection Applications.

Figure



Mechanical Data

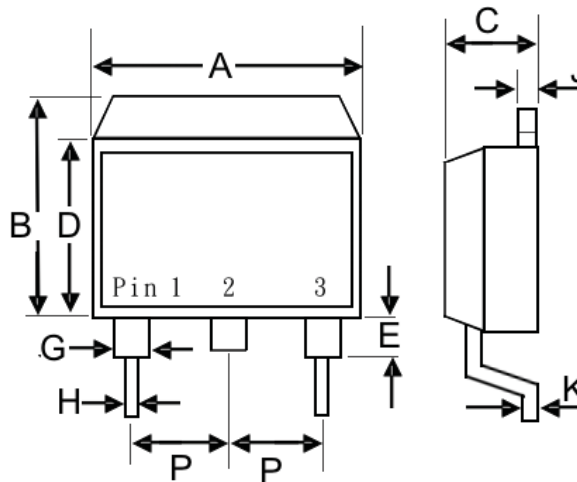
- ◆ Case: D²PAK/TO-263, Molded Plastic
- ◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- ◆ Polarity: See Diagram
- ◆ Weight: 1.7 grams (approx)
- ◆ Mounting Position: Any
- ◆ Marking: Type Number
- ◆ Lead Free: For RoHS / Lead Free Version Add "-LF" Suffix to part Number.



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

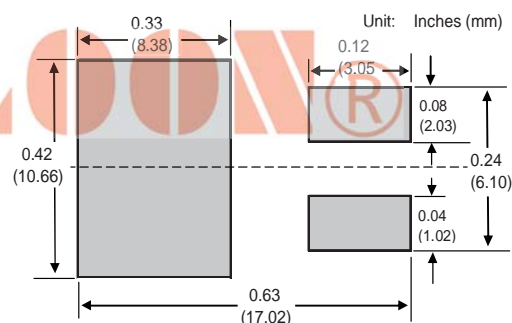


Marking Information

- SB8xxCT = Device Number
- xx = See Page 2 SB Part
- Polarity = As Marked Body



Recommended Footprint



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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	SB	SB	SB	SB	SB	SB	SB	SB	Unit
		820DC	830DC	840DC	745DC	850DC	860DC	880DC	8100DC	
Peak Repetitive Reverse Voltage	V _{RRM}									V
Working Peak Reverse Voltage	V _{RWM}	20	30	40	45	50	60	80	100	V
DC Blocking Voltage	V _R									V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	32	35	42	56	70	V
Average Rectified Output Current @T _C =130°C	I _O	8.0			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			150		A
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								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: Mounted on minimum recommended pad size on FR-4 board.

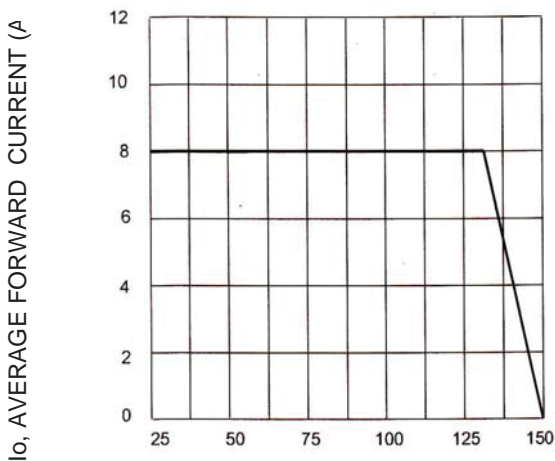


Fig-1 Forward and Current Derating Curve

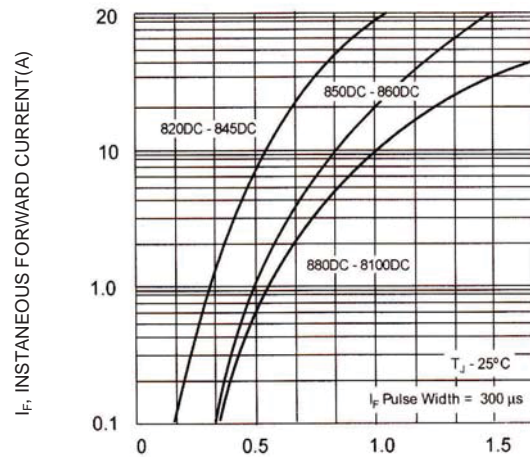


Fig-2 Typical Forward Characteristics

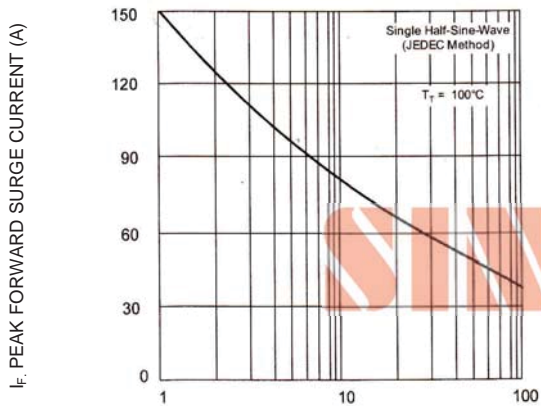


Fig-3 Maximum Non-Repetitive Peak FWD Surge Current

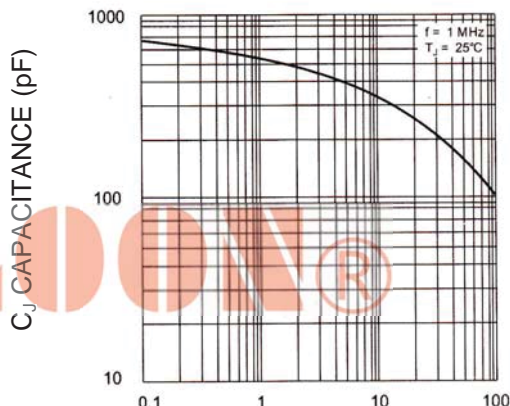


Fig-4 Typical Junction Capacitance

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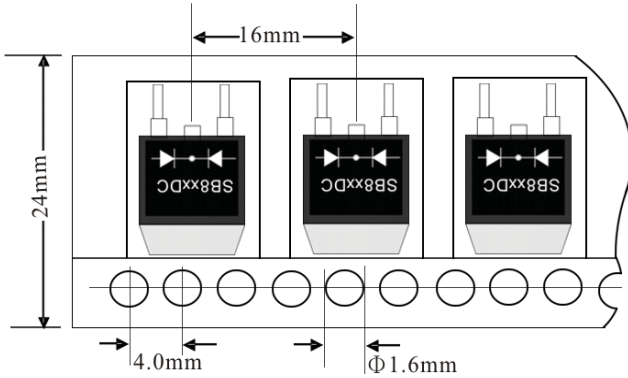
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Packaging Information

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

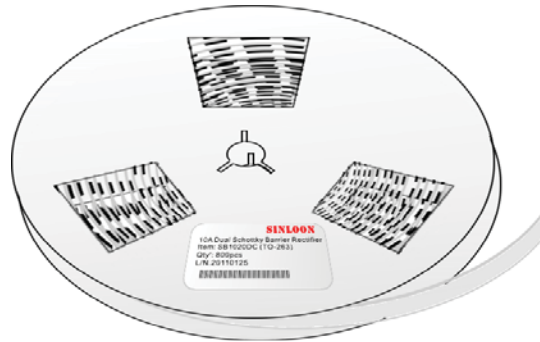
Note: 1. Paper reel. White or gray color,
2. Components are packed in accordance with EIA standard 481-1 and 481-2

Paper Tape

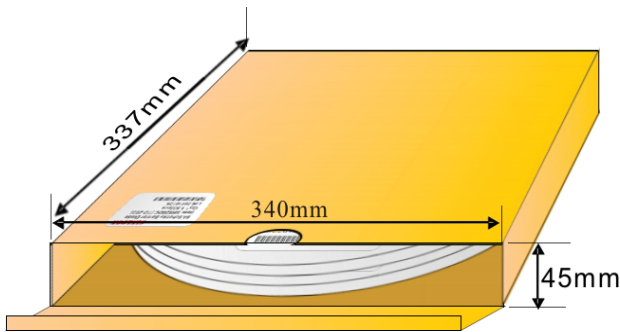


Reel Package

Size: 330 mm



Inner Box



Cartons Package



Carton Size: 370x370x420 mm

SINLOON®

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

