

SINLOON®

肖特基二極管
Case: TO-263

SB1020DC - SB10100DC
10A High Voltage SMD Dual Schottky Barrier Rectifier

Feature

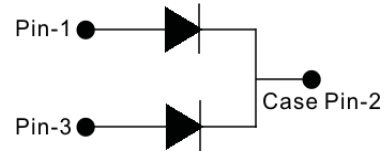
- ◆ Schottky Barrier Chip
- ◆ Guard Ring Die Construction For Transient Protection
- ◆ Low Forward Voltage Drop
- ◆ Low Power Loss, High Efficiency
- ◆ High Surge Current Capability
- ◆ For Use in Low Voltage, High Frequency Inverters, Free Wheeling and Polarity Protection Applications.

Figure



Mechanical Data

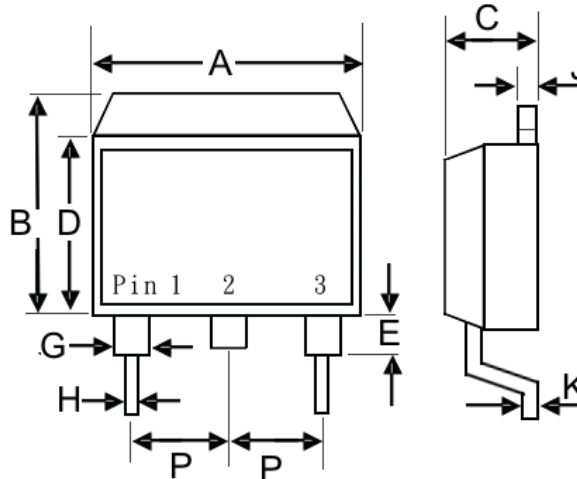
- ◆ Case: D²PAK/TO-263, Molded Plastic
- ◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- ◆ Polarity: See Diagram
- ◆ Weight: 1.7 grams (approx)
- ◆ Mounting Position: Any
- ◆ Marking: Type Number
- ◆ Lead Free: For RoHS / Lead Free Version Add "-LF" Suffix to part Number.



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

- SB10xxCT = Device Number
- xx = 150
- = 200
- Polarity = As Marked Body



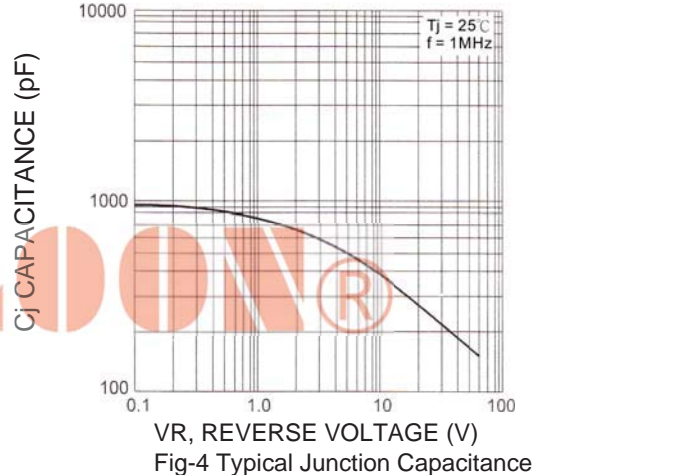
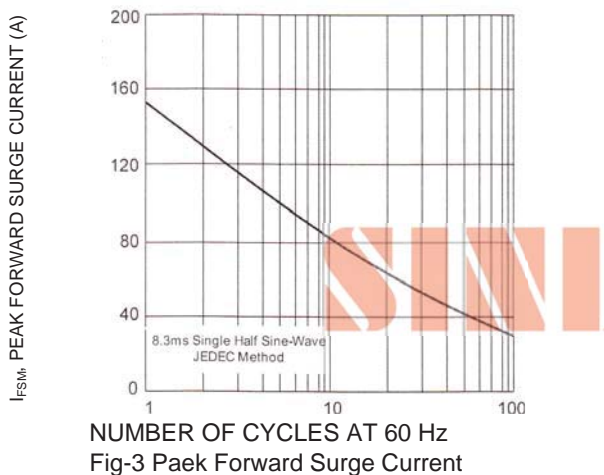
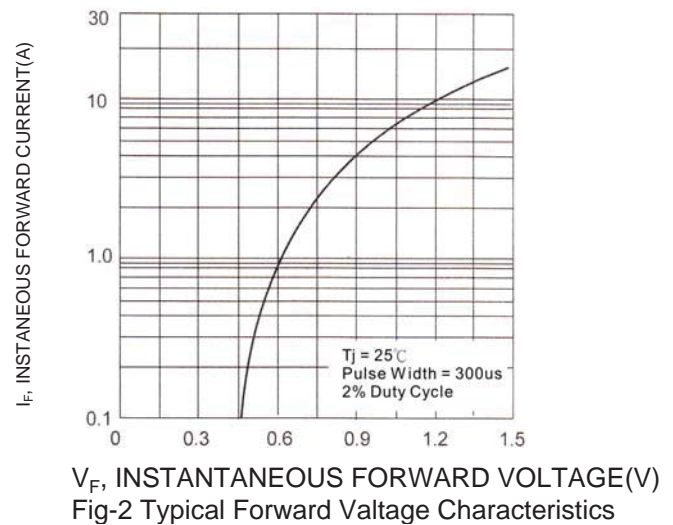
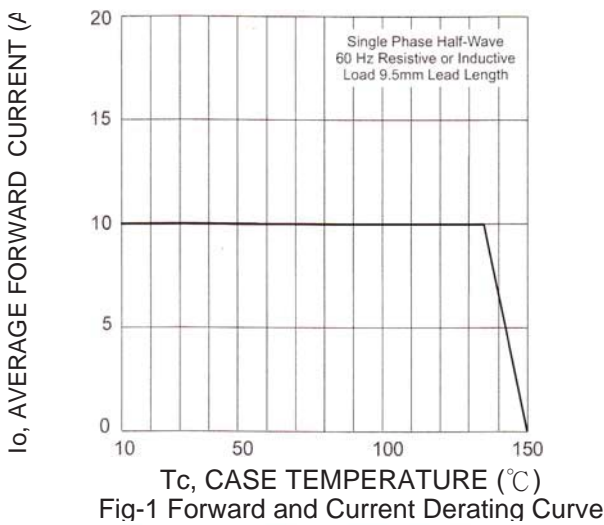
Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Characteristics	Symbol	SB 10150DC	SB 10200DC	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	150	200	V
Working Peak Reverse Voltage	V_{RWM}			
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	105	140	V
Average Rectified Output Current @ $T_C=135^\circ\text{C}$	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 @ $I_F=5.0\text{A}$	V_{FM}	0.92	0.92	V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	I_{RM}	1.0		mA
At Rated DC Blocking Vol. @ $T_A=100^\circ\text{C}$		50		
Typical Junction Capacitance (Note 1)	C_j	550		pF
Typical Thermal Resistance (Note 2)	$T_{\theta JC}$	2.0		$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150		$^\circ\text{C}$

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.



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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	800	370x370x420	6400	15Kg

Reel Pack



Cartons Package



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。

