

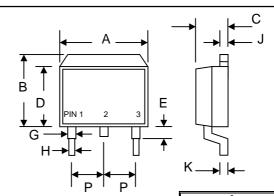
SB1020DC - SB10100DC



10A SURFACE MOUNT DUAL SCHOTTKY BARRIER RECTIFIER

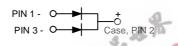
Features

- 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, See Page 4



D ² PAK/10-263						
Dim	Min	Max				
Α	9.80	10.40				
В	9.60	10.60				
С	4.40	4.80				
D	8.50	9.10				
Е	2.80	_				
G	1.00	1.40				
Н	_	0.90				
J	1.20	1.40				
K	0.30	0.70				
Р	2.35	2.75				
All Dimensions in mm						

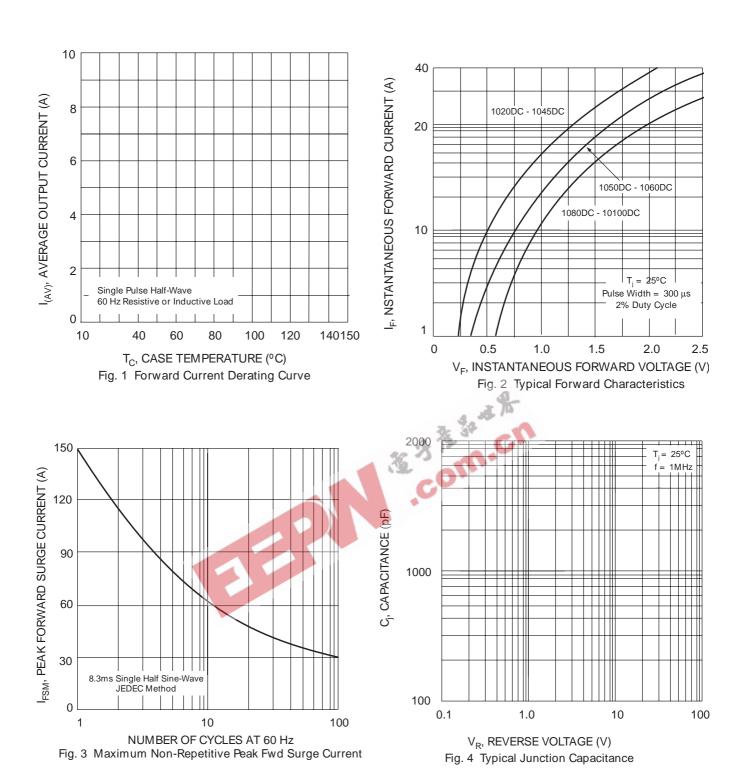
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	SB 1020DC	SB 1030DC	SB 1040DC	SB 1045DC	SB 1050DC	SB 1060DC	SB 1080DC	SB 10100DC	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	50	60	80	100	٧
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output Current @T _C = 100°C	lo	10							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150						А		
Forward Voltage @I _F = 5.0A	VFM	0.55 0.75 0.85					85	V		
	lгм	0.5 50				mA				
Typical Junction Capacitance (Note 1)	Cj	600						pF		
Typical Thermal Resistance (Note 2)	RθJC	3.0						°C/W		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150							°C	

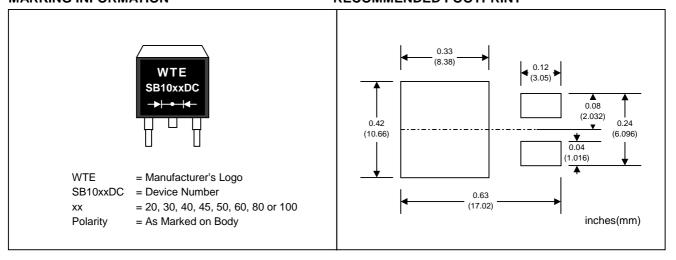
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.

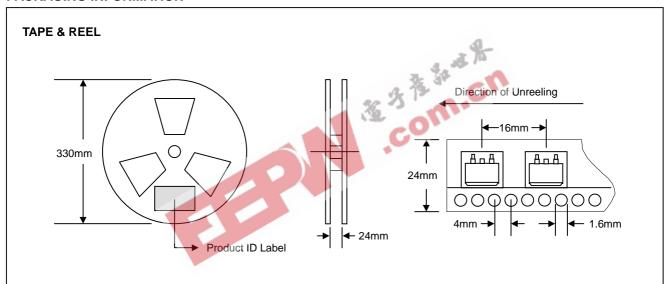


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	800	340 x 337 x 45	800	370 x 370 x 420	6,400	15.0

Note: 1. Paper reel, white or gray color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB1020DC-T3	D ² PAK	800/Tape & Reel
SB1030DC-T3	D ² PAK	800/Tape & Reel
SB1040DC-T3	D ² PAK	800/Tape & Reel
SB1045DC-T3	D ² PAK	800/Tape & Reel
SB1050DC-T3	D ² PAK	800/Tape & Reel
SB1060DC-T3	D ² PAK	800/Tape & Reel
SB1080DC-T3	D ² PAK	800/Tape & Reel
SB10100DC-T3	D ² PAK	800/Tape & Reel

- 1. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB1020DC-T3-LF. 2.



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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