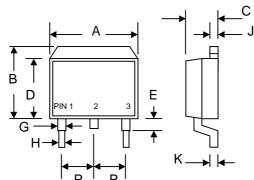


SB1620DC - SB16100DC

16A D²PAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

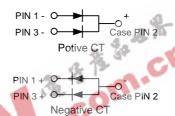
Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- 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: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Standard Packaging: 24mm Tape (EIA-481)



Suffix with "N"

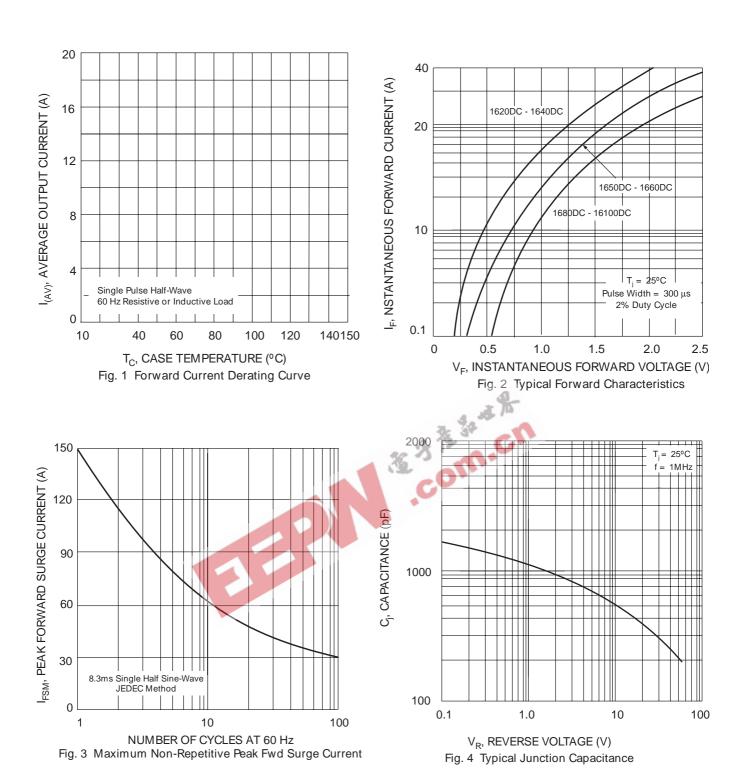
D ² PAK/TO-263					
Dim	Min	Max			
Α	9.8	10.4			
В	9.6	10.6			
С	4.4	4.8			
D	8.5	9.1			
E	_	0.7			
G	1.0	1.4			
Н	_	0.9			
J	1.2	1.4			
K	0.3	0.7			
Р	2.35	2.75			
All Dimensions in mm					

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 1620DC	SB 1630DC	SB 1640DC	SB 1650DC	SB 1660DC	SB 1680DC	SB 16100DC	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T _C = 90°C	lo	16					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM				150				Α
Forward Voltage @I _F = 8.0A	VFM	0.55 0.75 0.85			85	V			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C		0.5 100					mA		
Typical Junction Capacitance (Note 1)	Cj	700					pF		
Typical Thermal Resistance Junction to Ambient	RθJA	60					K/W		
Operating and Storage Temperature Range	Тj, Tsтg	-50 to +150					°C		

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



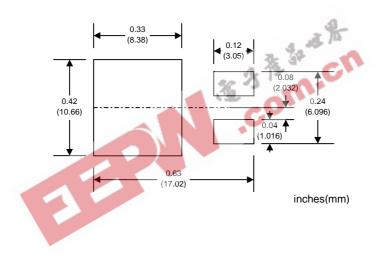
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
SB1620DC-T3	D ² PAK	800/Tape & Reel
SB1630DC-T3	D ² PAK	800/Tape & Reel
SB1640DC-T3	D ² PAK	800/Tape & Reel
SB1650DC-T3	D ² PAK	800/Tape & Reel
SB1660DC-T3	D ² PAK	800/Tape & Reel
SB1680DC-T3	D ² PAK	800/Tape & Reel
SB16100DC-T3	D ² PAK	800/Tape & Reel

[◆]T3 suffix refers to a 13" reel.

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

RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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We power your everyday.