



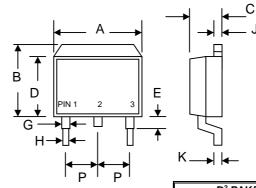
8.0A HIGH VOLTAGE SURFACE MOUNT DUAL SCHOTTKY BARRIER RECTIFIER

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



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Case, PIN 2

D ² PAK/TO-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 @T_A=25°C unless otherwise specified

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

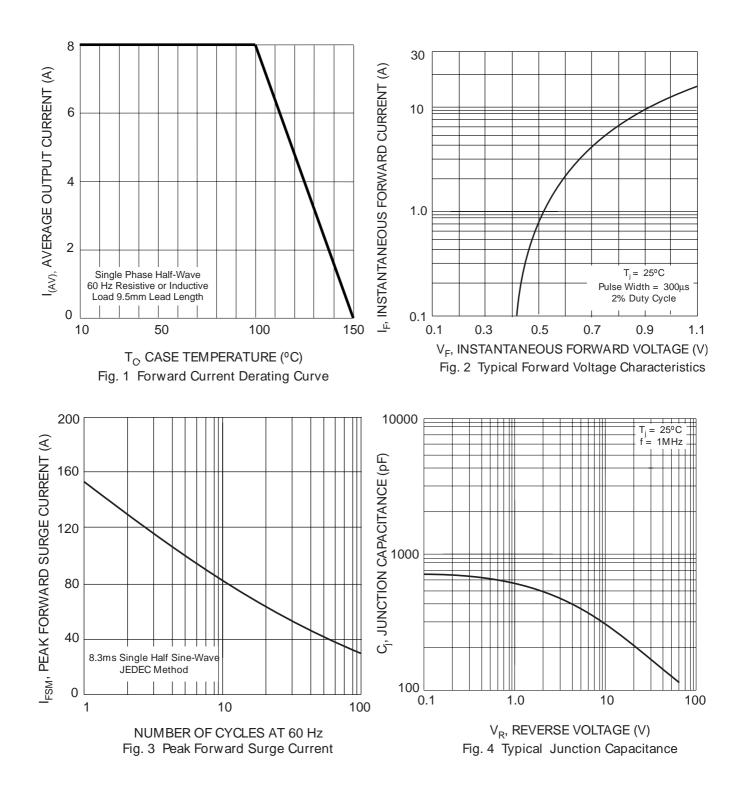
Characteristic	Symbol	SB8150DC	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	V
RMS Reverse Voltage	Vr(rms)	105	V
Average Rectified Output Current $@T_c = 100^{\circ}C$	ю	8.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150	A
Forward Voltage $@I_F = 4.0A$	Vfm	0.92	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	0.5 50	mA
Typical Junction Capacitance (Note 1)	Cj	400	pF
Typical Thermal Resistance (Note 2)	R	3.0	°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

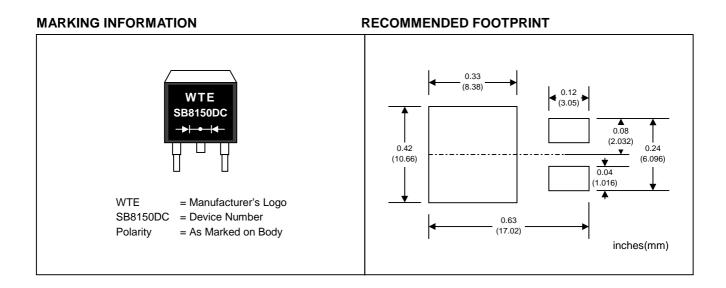
PIN 1 -

PIN 3 - 0

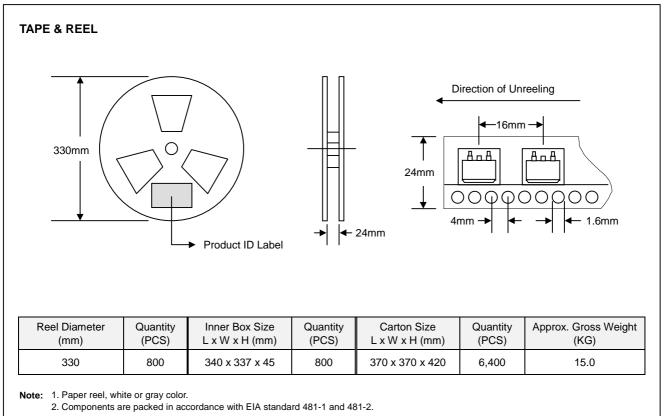
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.





PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB8150DC-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, SB8150DC-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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