

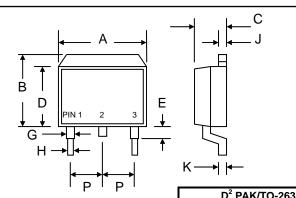
SB40150DC - SB40200DC

40A HIGH VOLTAGE SURFACE MOUNT DUAL SCHOTTKY BARRIER RECTIFIER



Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 250A Peak
- Low Power Loss, High Efficiency
- Fast Switching
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Switching Power Supplies



Mechanical Data

Case: D²PAK/TO-263, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

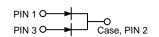
Polarity: See Diagram

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- 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		
E	_	2.80		
G	1.00	1.40		
Н	_	0.99		
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	SB40150DC	SB40200DC	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current Total Device @T _C = 100°C Per Diode	lo	4 2	•	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	25	50	А
Forward Voltage per diode $@I_F = 20A, T_J = 25^{\circ}C$ $@I_F = 20A, T_J = 125^{\circ}C$	VFM	0.0 0.0		V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	IRM	0. 1		mA
Typical Junction Capacitance (Note 1)	CJ	50	00	pF
Thermal Resistance Junction to Ambient (Note 2) Thermal Resistance Junction to Case (Note 2)	R JA R JC	5 1.	0 5	°C/W
Operating and Storage Temperature Range	ТJ, Tsтg	-55 to	+150	°C

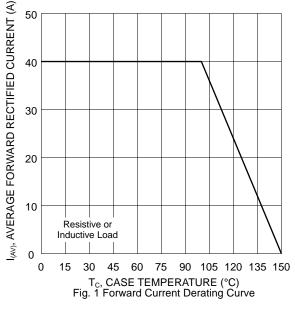
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

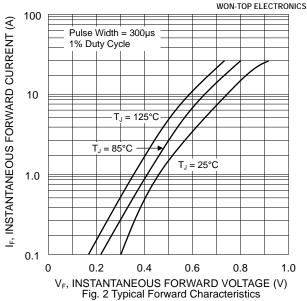
2. Mounted on FR-4 PCB with minimum recommended pad layout per diode.

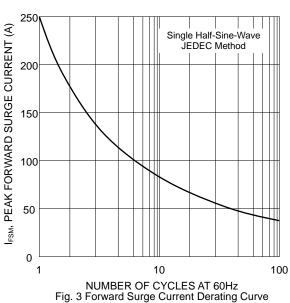
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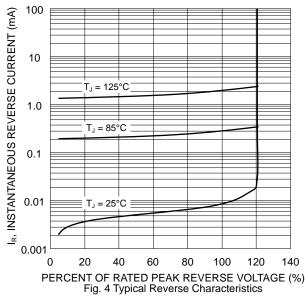
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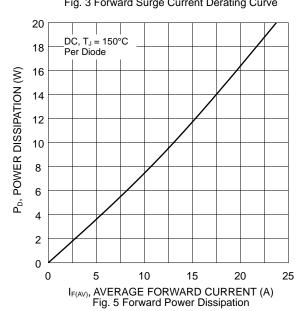


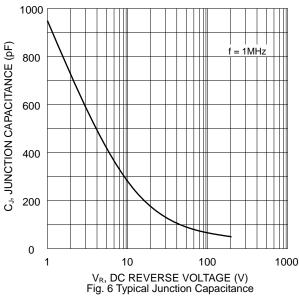








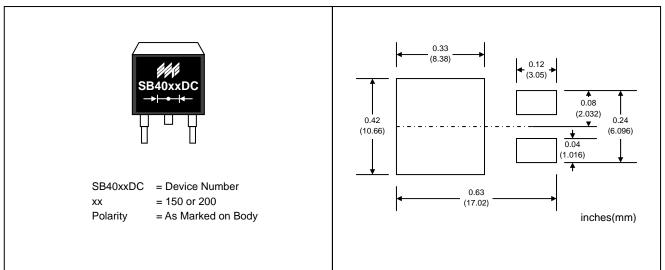




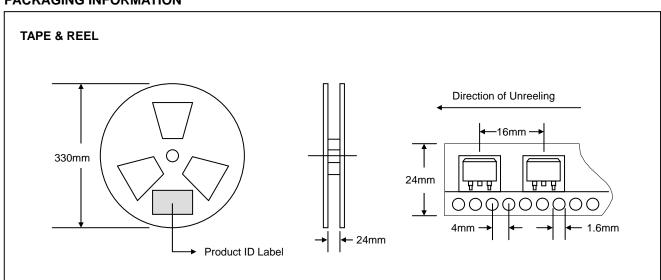


MARKING INFORMATION

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.

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



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity	
SB40150DC-T3	D ² PAK	800/Tape & Reel	
SB40200DC-T3	D ² PAK	800/Tape & Reel	

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- 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, SB40150DC-T3-LF.

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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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