# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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Technical Data Data Sheet N0870 Rev. - **Green Products** 

# SB220-SB260 SCHOTTKY RECTIFIER

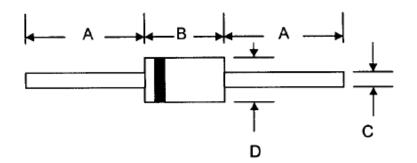
#### **Applications:**

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Disk drives
- Battery charging

#### Features:

- Small foot print, surface mountable
- Very low forward Voltage Drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Green Products in Compliance the ROHS Directive
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

# **Mechanical Dimensions: In mm**



	DO-15	
Dim	Min	Max
Α	25.4	-
В	5.50	7.62
С	0.71	0.864
D	2.60	3.60
All D	imensions i	n mm

#### DO-15

Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 [ (86) 25-87123907 •
FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



# SB220-SB260

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#### **Green Products**

#### Marking Diagram:



Where XXXXX is YYWWL

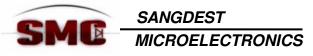
SB	= Device Type
2	= Forward Current (2A)
40	= Reverse Voltage (40V)
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

### **Ordering Information:**

Device	Package	Shipping		
SB240	DO-15	3000 pcs / tape		
	(Pb-Free)	3000 pcs / tape		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



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### 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	SB220	SB230	SB240	SB250	SB260	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	20	30	40	50	60	v
RMS Reverse Voltage		VR(RMS)	14	21	28	35	42	v
Average Rectified Output Current (Note 1) @	T <sub>L</sub> = 100°C	ю	2.0				Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50					A
Forward Voltage	@I <sub>F</sub> = 2.0A	Vfm	0.50 0.70			70	v	
	@T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C	İRM	0.5 10					mA
Typical Junction Capacitance (Note 2)		Cj	170 140			40	pF	
Typical Thermal Resistance Junction to Lead		R∉j⊾	15					к⁄w
Typical Thermal Resistance Junction to Ambient (Note 1)		R∉ja	50					к/w
Operating and Storage Temperature Range		Тј, Тѕтс	-65 to +150					°C

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



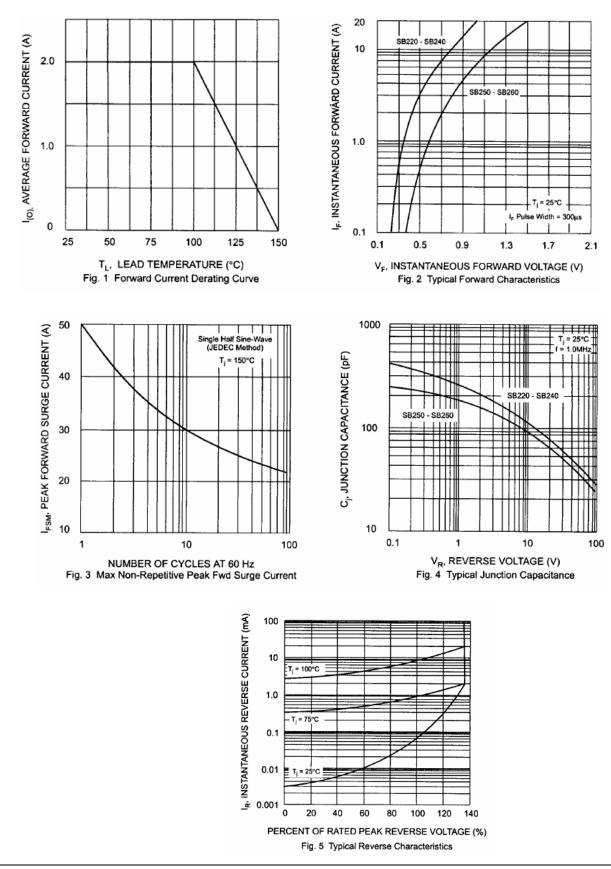
**Technical Data** 

Data Sheet N0870 Rev. -

# SANGDEST MICROELECTRONICS

# SB220-SB260

**Green Products** 





#### SANGDEST MICROELECTRONICS

#### Technical Data Data Sheet N0870 Rev. -

# SB220-SB260

#### **Green Products**

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