



SB520 - SB5100



5.0A Schottky Barrier Diode

FEATURE

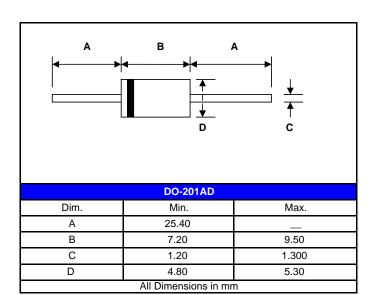
- Schottky Barrier Chip
- Guard Ring Die Construction for Transistor Protection.
- **High Current Capability**
- Low Power Loss. High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Prorection Applications.

MECHANICAL DATA

- Case: DO-201AD, Molded Plastic.
- Terminals: Solder Plated, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band.
- Marking: Type Number
- Weight: 1.2 grams (approx.)
- Mounting Position: Any

Website: http://www.mayloon.com

Lead Free: For RoHS / Lead free Version, Add "LF" suffix to part Number, See page 2.



http://www.mayloon.com

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS @TA = 25°C unless otherwise specified

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

Characteristic	Symbol	SB520	SB530	SB540	SB550	SB560	SB580	SB5100	Unit
Peak Repetitive Reverse Voltage									
Working Peak Reverse Voltage	VRWM	20	30	40	50	60	80	100	V
DC Blocking Voltage	VR								
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Outpot Current @T _L =100°C (Note 1)	IO	5.0						Α	
Non-Repetitive Peak Forward Sutge Current		150					А		
8.3ms Single half sine-wave superimposed on	IFSM								
rated load (JEDEC Method)									
Forward Voltage @I _F =5.0A	VFM		0.55		0.7	70	0.	85	V
Peak Reverse Current @TA=25°C	IRM	0.5							mA
At Rated DC Blocking Voltage @TA=100°C	IIXIVI	50							
Typical Junction Capacitance (Note 2)	Cj		500 400			pF			
Typical Thermal Resistance (Note 1)	RθJA	10				•	°C/W		
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150					$^{\circ}\mathbb{C}$		

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

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





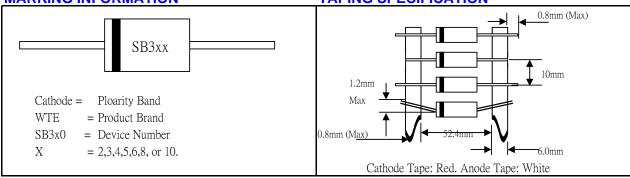
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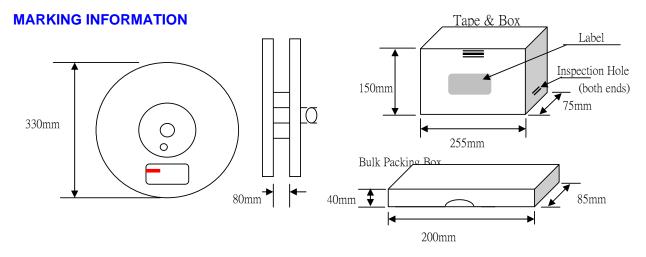


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MARKING INFORMATION

TAPING SPECIFICATION





Packaging	Quantity	Reel Daimeter	Carton Size	Quantity	Approx Gross Weight
(mm)	(PCS)	Box Size (mm)	LxWxH (mm)	(PCS)	(KG)
Tape & Reel	1200	330	370x370x420	6000	10.0
Tape & Box	1200	255x75x150	400x273x415	12000	17.0
Bulk Box	500	200x85x40	459x214x256	12500	16.0

1). Paper reel, white or gray color. Core material: plastic or metal.

2). Components are packed in accordance with EIA standard RS-296-E

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity	Product No.	Package Type	Shipping Quantity	
SB520-T3	DO-201AD	1200/Tape & Reel	SB560-T3	DO-201AD	1200/Tape & Reel	
SB520-TB	DO-201AD	1200/Tape & Box	SB560-TB	DO-201AD	1200/Tape & Box	
SB520	DO-201AD	500 Unit/Box	SB560	DO-201AD	500 Unit/Box	
SB530-T3	DO-201AD	1200/Tape & Reel	SB580-T3	DO-201AD	1200/Tape & Reel	
SB530-TB	DO-201AD	1200/Tape & Box	SB580-TB	DO-201AD	1200/Tape & Box	
SB530	DO-201AD	500 Unit/Box	SB580	DO-201AD	500 Unit/Box	
SB540-T3	DO-201AD	1200/Tape & Reel	SB5100-T3	DO-201AD	1200/Tape & Reel	
SB540-TB	DO-201AD	1200/Tape & Box	SB5100-TB	DO-201AD	1200/Tape & Box	
SB540	DO-201AD	500 Unit/Box	SB5100	DO-201AD	500 Unit/Box	
SB550-T3	DO-201AD	1200/Tape & Reel				
SB550-TB	DO-201AD	1200/Tape & Box	http://ww.mayloon.com			

1). Products listed in bold are WTE Preferred devices.

DO-201AD

2). Shipping quantity given in minimum packing quantity only, for minimum order quantity, please consuit the Sales Department.

500 Unit/Box

3). To oder RoHS /Lead Free version (with Lead Free finish), add "LF" suffix to part number above, for example, SB520-TB-LF.

SB550