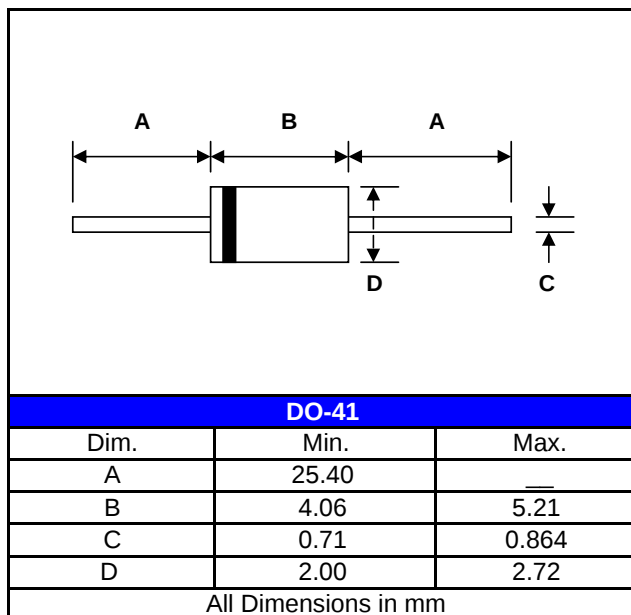


**FEATURE**

- ◆ 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 Protection Applications.

MECHANICAL DATA

- ◆ Case: DO-41, Molded Plastic.
- ◆ Terminals: Solder Plated, Solderable per MIL-STD-202, Method 208
- ◆ Polarity: Cathode Band.
- ◆ Marking: Type Number
- ◆ Weight: 0.34 grams (approx)
- ◆ Mounting: Type Number
- ◆ Lead Free: For RoHS / Lead free Version, Add "LF" suffix to part Number, See page 3.

**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	SB120	SB130	SB140	SB150	SB160	SB180	SB1100	Unit
Peak Repetitive Reverse Voltage	VRRM								
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 @TL=100℃ (Note 1)	IO	1.0							A
Non-Repetitive Peak Forward Sutge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40							A
Forward Voltage @IF=1.0A	VFM	0.50			0.70		0.85		V
Peak Reverse Current @TA=25℃	IRM	0.5							mA
At Rated DC Blocking Voltage @TA=100℃		10							
Typical Junction Capacitance (Note 2)	Cj	100			80				pF
Typical Thermal Resistance (Note 1)	RθJL	15							℃/W
	RθJA	50							
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150							℃

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.



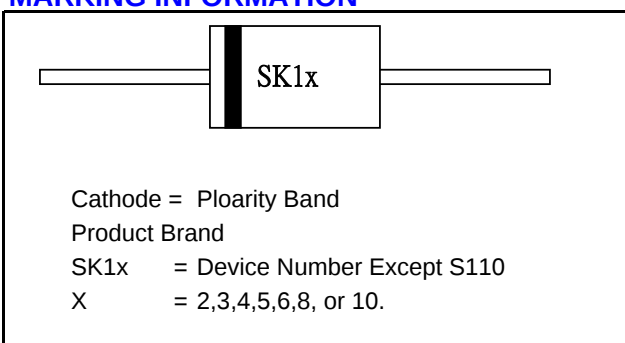
POWER SEMICONDUCTOR

SB120 - SB1100

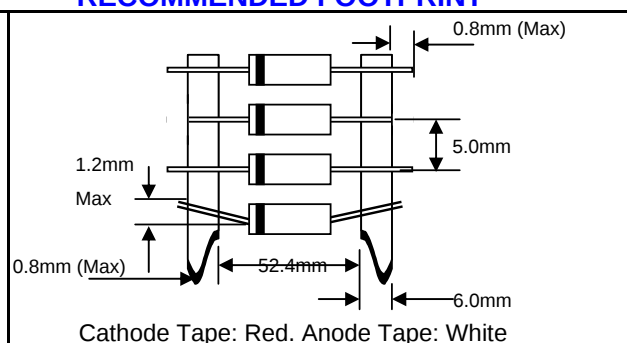


1.0A Schottky Barrier Diode

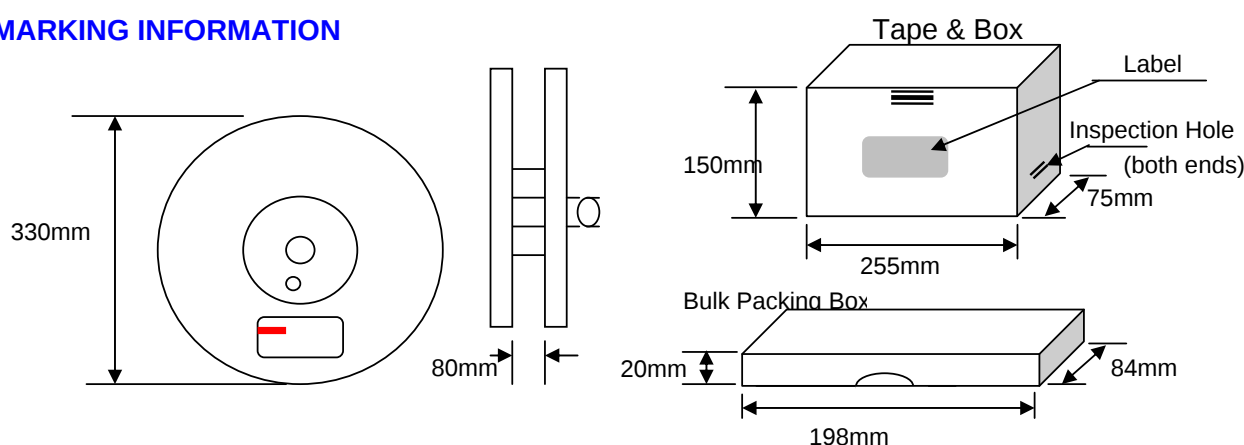
MARKING INFORMATION



RECOMMENDED FOOTPRINT



MARKING INFORMATION



Packaging (mm)	Quantity (PCS)	Reel Daimeter Box Size (mm)	Carton Size LxWxH (mm)	Quantity (PCS)	Approx Gross Weight (KG)
Tape & Reel	5000	330	370x370x420	25000	13.0
Tape & Box	5000	255x75x150	400x273x415	50000	21.0
Bulk Box	1000	198x84x20	459x214x256	50000	19.5

- Note: 1). Paper reel, white or gray color. Core material: plastic or metal.
2). Components are packed in accprdance with EIA standard RS-296-E

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity	Product No.	Package Type	Shipping Quantity
SB120-T3	DO-41	5000/Tape & Reel	SB160-T3	DO-41	5000/Tape & Reel
SB120-TB	DO-41	5000/Tape & Reel	SB160-TB	DO-41	5000/Tape & Reel
SB120	DO-41	1000 Unit/Box	SB160	DO-41	1000 Unit/Box
SB130-T3	DO-41	5000/Tape & Reel	SB180-T3	DO-41	5000/Tape & Reel
SB130-TB	DO-41	5000/Tape & Reel	SB180-TB	DO-41	5000/Tape & Reel
SB130	DO-41	1000 Unit/Box	SB180	DO-41	1000 Unit/Box
SB140-T3	DO-41	5000/Tape & Reel	SB1100-T3	DO-41	5000/Tape & Reel
SB140-TB	DO-41	5000/Tape & Reel	SB1100-TB	DO-41	5000/Tape & Reel
SB140	DO-41	1000 Unit/Box	SB1100	DO-41	1000 Unit/Box
SB150-T3	DO-41	5000/Tape & Reel			
SB150-TB	DO-41	5000/Tape & Reel			
SB150	DO-41	1000 Unit/Box			

- 1). Products listed in bold are WTE Preferred devices.
2). Shipping quantity given in minimum packing quantity only, for minimum order quantity, please consult the Sales Department.
3). To oder RoHS /Lead Free version (with Lead Free finish), add "LF" suffix to part number above, for example, SK120-TB-LF.