

Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company





SCHOTTKY BARRIER RECTIFIERS



SB120 - SB1A0

DO-41P Axial Lead Plastic Package

For use in Low Voltage, High Frequency Inverters, Free Wheeling Diodes and Polarity Protection Applications

Maximum RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating @ 25°C Ambient Temperature unless specified otherwise. Single Phase, half wave Resistive or Inductive Load. For Capacitive Load. Derate by 20%)

Inductive Load. For Capacitive Load, Derate		00400	00400	00440	00450	00400	00400	00440	
DESCRIPTION	SYMBOL	SB120	SB130	SB140	SB150	SB160	SB180	SB1A0	UNIT
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	57	71	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Average Forward Rectified Current					4.0				•
0.375"(9.5mm) Lead Length @ T _L =75°C	I _(AV)				1.0				Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}				40				Α
Maximum Forward Voltage @ I _F =1.0A	*V _F		0.55		0	.7	0.75	0.83	٧
Maximum DC Reverse Current T _a =25°C	*I _R				0.5				mΑ
@ Rated DC Blocking Voltage T _a =100°C	'R				10				mA
Junction Capacitance	***C _j			Т	YP110				рF
Thermal Resistance Junction to Ambient	**R _{th (j-a)}			٦	TYP50				°C/W
Thermal Resistance Junction to Lead	**R _{th (J-L)}			7	TYP15				°C/W
Operating Junction Temperature Range	T_j		65 to +12	25		-65 to	+150		٥C
Storage Temperature Range	T _{stg}			- 6	5 to +150)			٥C

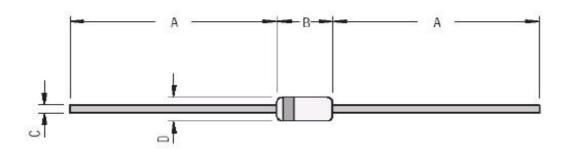
^{*} Pulse Width=300ms, 1% Duty Cycle.

^{**} Thermal Resistance (from Junction to Ambient) Vertical P.C.B. Mounted with 1.5 x 1.5" (38 x 38mm) Copper Pads

^{***}Measured @ 1MHz and Reverse Voltage 0f 4V

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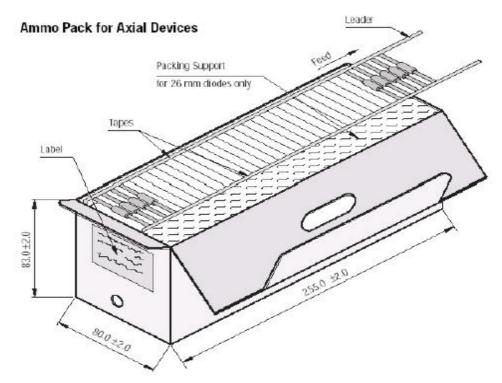
DIM	Min	Max
Α	25.40	
В	4.20	5.20
С	0.70	0.90
D	2.00	2.70

All Dimensions are in mm



DO-41P Axial Lead Plastic Package

DO-41P Package and Packaging AMMO PACKING FOR DO-41P



All Dimensions are in mm

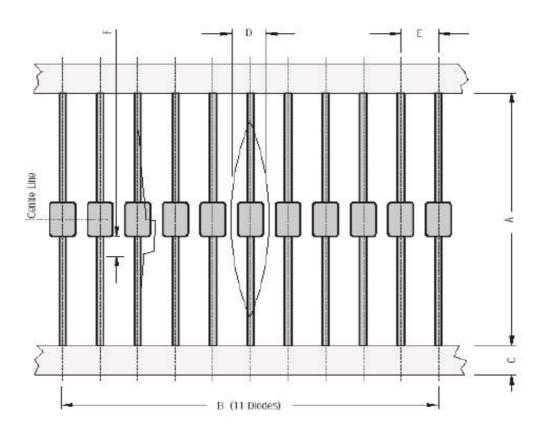
Packaging Information

Package/	Packaging Type	Std. Packing		Inner Carto	n	i ci	Outer Car	ton
Case Type		Qty	Qty	Size L x W x H	Gross Weight	Qty	Size L x W x H	Gross Weight
25-50-25-50-50-50-50-50-50-50-50-50-50-50-50-50		0.384460		(cm)	(Kg)		(cm)	(Kg)
DO-41P	T&A	5,000	5K	27 x 8 x 14	1.96	45K	46 x 35 x 25	17.5

T & A: Tape and Ammo Pack

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DO-41P Package and Packaging



DO-41P 52 mm Tape				
DIM	Min	Max		
A	50.0	54.0		
В	95.0	105.0		
С	5.60	6.50		
D		1.5R		
E	9.50	10.50		
F		1.25		

All Dimensions are in mm

TAPE SPECIFICATIONS

- 1. 300 mm (Min) leader tape on every roll.
- 2. No. of empty places allowed 0.25% without consecutive empty places.
- 3. Ends of leads shall normally not protrude beyond the tapes.
- Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

Customer Notes SB120 - SB1A0

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Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best ted for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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