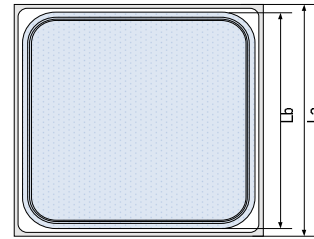


**2SB154100MA SCHOTTKY BARRIER DIODE CHIPS**
**DESCRIPTION**

- 2SB154100MA is a schottky barrier diode chips fabricated in silicon epitaxial planar technology;
- Low power losses, high efficiency;
- High ESD capability;
- High surge capability;
- Guard ring construction for transient protection;
- Packaged products are widely used in switching power suppliers, polarity protection circuits and other electronic circuits.



Chip Topography

**ORDERING SPECIFICATIONS**

Product Name	Specification
2SB154100MAYY	Top metal is Ag, for solder process; Back metal is Ag, for solder process.

**CHIP INFORMATION**

Item	Characterization
Wafer Size	5Inch
Gross Die	4,604dice/wafer
Die Size(La)	1540 $\mu$ m
Top Pad Size(Lb)	1390 $\mu$ m
Wafer Thickness(Lc)	280 $\pm$ 20 $\mu$ m
Top Metal / Thickness	Ag:5 $\mu$ m
Back Metal / Thickness	Ag:1.2 $\mu$ m
Passivation	SiO <sub>2</sub>
Scribe Line Sign	12 $\mu$ m
Scribe Line Width	50 $\mu$ m

**ABSOLUTE MAXIMUM RATINGS ( at DO-201AD package )**

Parameters	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	100	V
Average Forward Rectified Current	IFAV	3	A
Peak Forward Surge Current@8.3ms	IFSM	80	A
Maximum Operation Junction Temperature	TJ	150	°C
Storage Temperature Range	TSTG	-40~150	°C

**ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25°C)**

Parameters	Symbol	Test Conditions	Min.	Max.	Unit
Reverse Voltage	VBR	IR=50μA	100	--	V
Forward Voltage	VF	IF=3A	--	0.8	V
Reverse Current	IR	VR=100V	--	10	μA

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