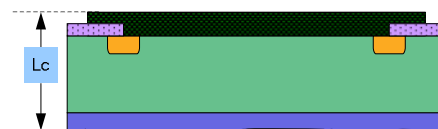
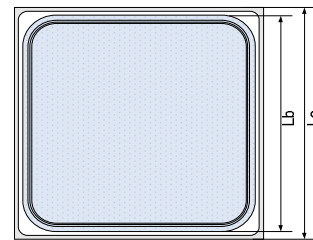


2SB183100MA SCHOTTKY BARRIER DIODE CHIPS
DESCRIPTION

- 2SB183100MA 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
2SB183100MAYY	Top metal is Ag, for solder process; Back metal is Ag, for solder process.
2SB183100MAYL	Top metal is Al, for wire bonding process; Back metal is Ag, for solder process.

CHIP INFORMATION

Item	Characterization
Wafer Size	5Inch
Gross Die	3,232dice/wafer
Die Size(La)	1830 μ m
Top Pad Size(Lb)	1690 μ m
Wafer Thickness(Lc)	280 \pm 20 μ m
Top Metal / Thickness	Ag:5 μ m or Al:4.5 μ m
Back Metal / Thickness	Ag:1.2 μ m
Passivation	SiO ₂
Scribe Line Width	50 μ 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	5	A
Peak Forward Surge Current@8.3ms	IFSM	125	A
Maximum Operation Junction Temperature	TJ	150	°C
Storage Temperature Range	TSTG	-40~150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C)

Parameters	Symbol	Test Conditions	Min.	Max.	Unit
Reverse Voltage	VBR	IR=50μA	100	--	V
Forward Voltage	VF	IF=5A	--	0.8	V
Reverse Current	IR	VR=100V	--	15	μA

Disclaimer :

- Silan reserves the right to make changes to the information herein for the improvement of the design and performance without further notice! Customers should obtain the latest relevant information before placing orders and should verify that such information is complete and current.
- All semiconductor products malfunction or fail with some probability under special conditions. When using Silan products in system design or complete machine manufacturing, it is the responsibility of the buyer to comply with the safety standards strictly and take essential measures to avoid situations in which a malfunction or failure of such Silan products could cause loss of body injury or damage to property.
- Silan will supply the best possible product for customers!