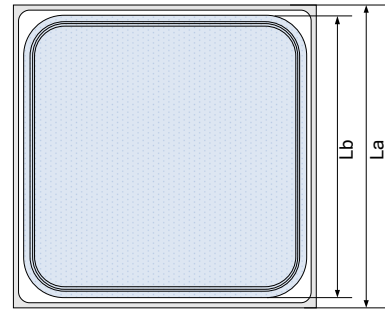


2SB071040MLYY SCHOTTKY BARRIER DIODE CHIPS
DESCRIPTION

- 2SB071040MLYY is a schottky barrier diode chips fabricated in silicon epitaxial planar technology;
- Low power losses, high efficiency;
- Guard ring construction for transient protection;
- High ESD capability;
- High surge capability;
- Packaged products are widely used in switching power suppliers, polarity protection circuits and other electronic circuits.



Chip Topography

ORDERING SPECIFICATIONS

Product Name	Specification
2SB071040MLYY	Top metal is Ag, for soldering process; Back metal is Ag, for soldering process; Wafer thickness 280 μ m.
2SB071040MLYY-210	Top metal is Ag, for soldering process; Back metal is Ag, for soldering process. Wafer thickness 210 μ m

CHIP INFORMATION

Item	Characterization
Wafer Size	5Inch
Gross Die	23,628dice/wafer
Die Size(La)	680 μ m
Top Pad Size(Lb)	630 μ m
Wafer Thickness(Lc)	280 \pm 20 μ m or 210 \pm 20 μ m
Top Metal / Thickness	Ag:5 μ m
Back Metal / Thickness	Ag:1.2 μ m
Paasivation	SiO ₂
Scribe Line Sign	12 μ m
Scribe Line Width	40 μ m

ABSOLUTE MAXIMUM RATINGS(T_{amb}=25°C)

Parameters	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	40	V
Average Forward Rectified Current	IFAV	1	A
Peak Forward Surge Current@8.3ms	IFSM	30	A
Maximum Operation Junction Temperature	TJ	125	°C
Storage Temperature Range	TSTG	-40~125	°C

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

Parameters	Symbol	Test Conditions	Min.	Max.	Unit
Reverse Voltage	VBR	I _R =100μA	45	--	V
Forward Voltage	V _F	I _F =1A	--	0.53	V
Reverse Current	I _R	V _R =40V	--	50	μA

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- 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!