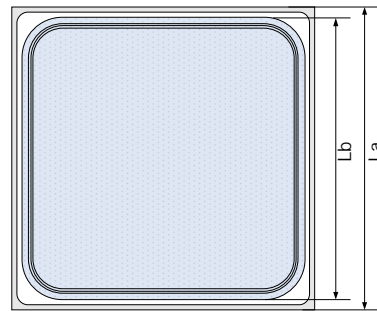


**2SB139040ML SCHOTTKY BARRIER DIODE CHIPS**
**DESCRIPTION**

- Ø 2SB139040ML is a schottky barrier diode chips fabricated in silicon epitaxial planar technology;
- Ø Low power losses, high efficiency;
- Ø Guard ring construction for transient protection;
- Ø High ESD capability;
- Ø High surge capability;
- Ø Packaged products are widely used in switching power suppliers, polarity protection circuits and other electronic circuits.;
- Ø Chip Size:1390 $\mu$ m X 1540 $\mu$ m;
- Ø Chip Thickness: 280 $\pm$ 20 $\mu$ m;


**Chip Topography and Dimensions**
**La: Chip Size: 1390 $\mu$ m;**
**Lb: Pad Size: 1295 $\mu$ m;**
**ORDERING SPECIFICATIONS**

Product Name	Specification
2SB139040MLYY	For axial leads package

**ABSOLUTE MAXIMUM RATINGS**

Parameters	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	40	V
Average Forward Rectified Current	IFAV	3	A
Peak Forward Surge Current@8.3ms	IFSM	80	A
Maximum Operation Junction Temperature	TJ	125	$^{\circ}$ C
Storage Temperature Range	TSTG	-40~125	$^{\circ}$ C

**ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25 $^{\circ}$ C)**

Parameters	Symbol	Test Conditions	Min.	Max.	Unit
Reverse Voltage	VBR	I <sub>R</sub> =0.5mA	40	--	V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =3A	--	0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =40V	--	0.5	mA