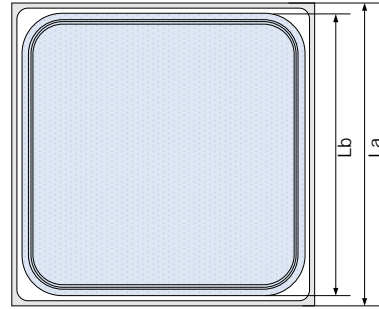


## 2SB166040ML SCHOTTKY BARRIER DIODE CHIPS

### DESCRIPTION

- Ø 2SB166040ML 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:1660 $\mu$ m X 1660 $\mu$ m;
- Ø Chip Thickness: 280 $\pm$ 20 $\mu$ m;



Chip Topography and Dimensions

La: Chip Size: 1660 $\mu$ m;

Lb: Pad Size: 1565 $\mu$ m;

### ORDERING SPECIFICATIONS

Product Name	Specification
2SB166040MLYY	For axial leads package

### ABSOLUTE MAXIMUM RATINGS

Parameters	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	60	V
Average Forward Rectified Current	IFAV	5	A
Peak Forward Surge Current@8.3ms	IFSM	150	A
Maximum Operation Junction Temperature	TJ	125	°C
Storage Temperature Range	TSTG	-40~125	°C

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

Parameters	Symbol	Test Conditions	Min.	Max.	Unit
Reverse Voltage	VBR	IR=0.5mA	60	--	V
Forward Voltage	VF	IF=5A	--	0.70	V
Reverse Current	IR	VR=60V	--	0.5	mA