# Schottky Barrier Diode

● **Dimensions** (Unit: mm)

 $2.6 \pm 0.15$ 

RBR5L60A Data Sheet

### Application

General rectification

### Features

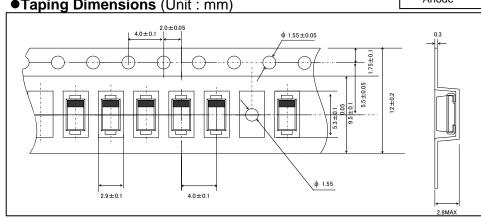
- Small power mold type (PMDS)
- 2) High reliability
- 3) Low V<sub>F</sub>

# O1 O1 O1 O1 O2 PMDS PMDS JEDEC: SOD-106 O1 O2 Anode Taping Dimensions (Unit: mm)

●Land Size Figure (Unit : mm)

### Construction

Silicon epitaxial planar type



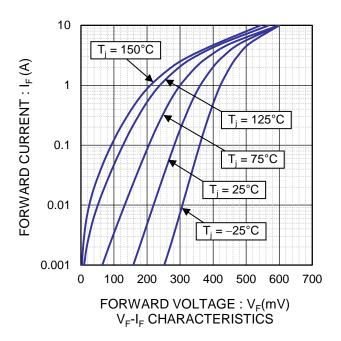
### ● Absolute Maximum Ratings (T<sub>c</sub>= 25°C)

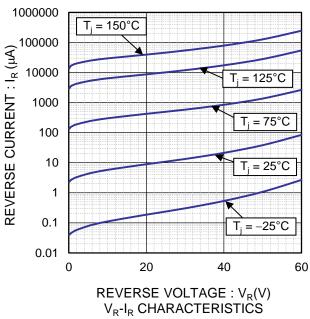
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5	60	V
Reverse voltage	$V_R$	Direct reverse voltage	60	V
Average forward rectified current	I <sub>o</sub>	Glass epoxy board mounted, 60Hz half sin wave, resistive load , $T_c$ =30°C Max.	5	Α
Non-repetitive forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, one cycle, non-repetitive at T <sub>a</sub> =25°C	50	Α
Operating junction temperature	T <sub>j</sub>	-	150	°C
Storage temperature	T <sub>stg</sub>	•	-55 to +150	°C

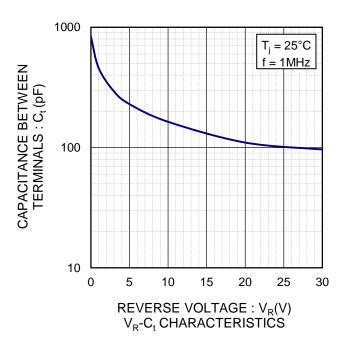
### ●Electrical Characteristics (T<sub>i</sub>= 25°C)

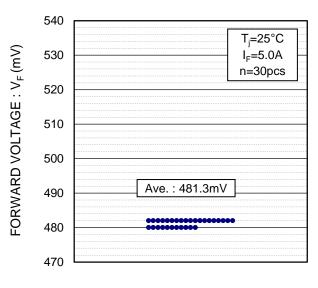
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> =5.0A	-	-	0.55	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =60V	-	-	250	μΑ

### **•**Electrical Characteristic Curves



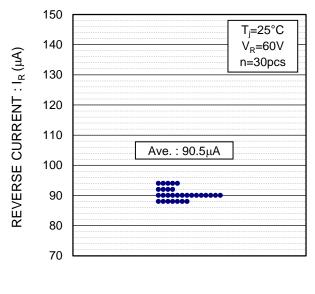


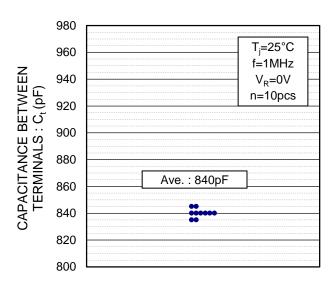




V<sub>F</sub> DISPERSION MAP

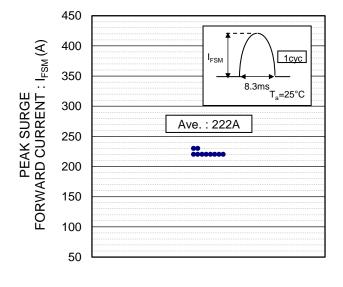
### • Electrical Characteristic Curves



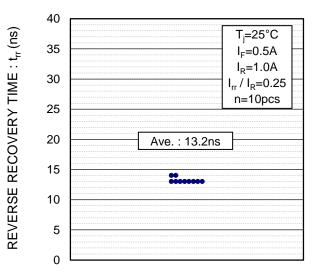


I<sub>R</sub> DISPERSION MAP

C<sub>t</sub> DISPERSION MAP

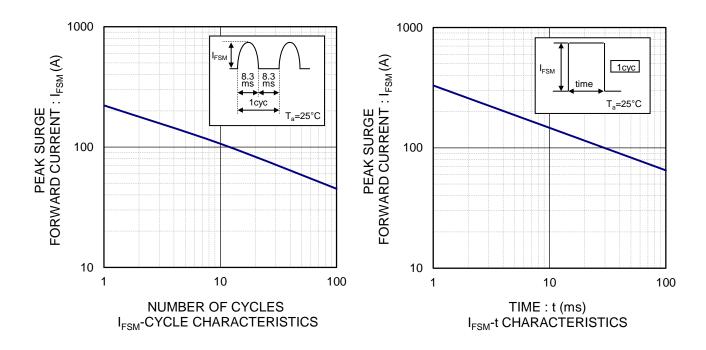


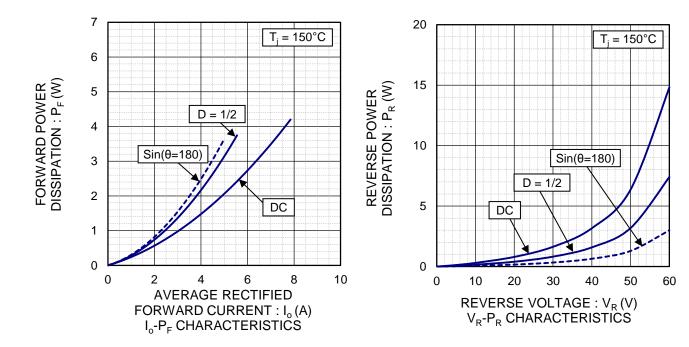
I<sub>FSM</sub> DISPERSION MAP



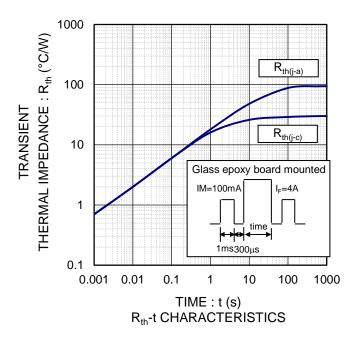
t<sub>rr</sub> DISPERSION MAP

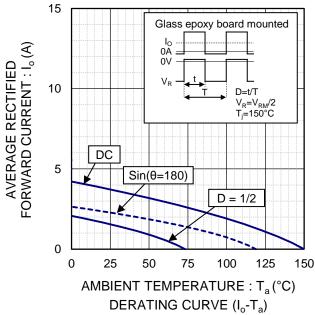
### **•**Electrical Characteristic Curves

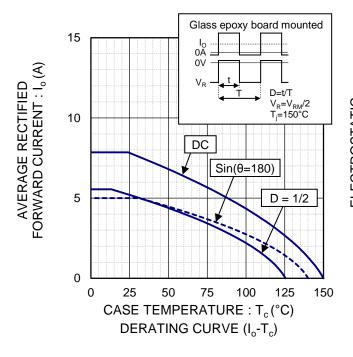


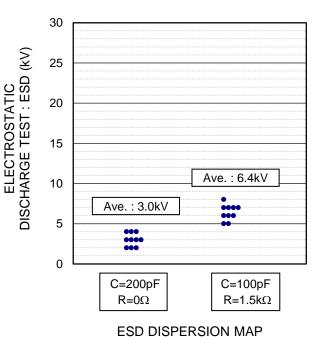


### **•**Electrical Characteristic Curves









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JAPAN	USA	EU	CHINA
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CLASSIV	CLASSIII	CLASSⅢ	CLASSIII

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  - [g] Use of our Products without cleaning residue of flux (even if you use no-clean type fluxes, cleaning residue of flux is recommended); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
  - [h] Use of the Products in places subject to dew condensation
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For details, please refer to ROHM Mounting specification

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### **Precaution for Electrostatic**

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

### **Precaution for Storage / Transportation**

- 1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
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  - [b] the temperature or humidity exceeds those recommended by ROHM
  - [c] the Products are exposed to direct sunshine or condensation
  - [d] the Products are exposed to high Electrostatic
- Even under ROHM recommended storage condition, solderability of products out of recommended storage time period
  may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is
  exceeding the recommended storage time period.
- 3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
- 4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

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