# Schottky Barrier Diode

RB168L-60 Data Sheet

# Application

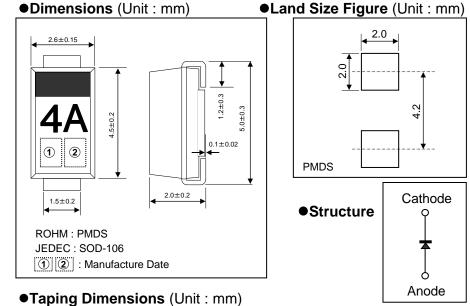
General rectification

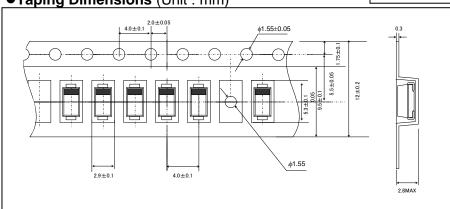
#### Features

- Small power mold type (PMDS)
- 2) High reliability
- 3) Super low I<sub>R</sub>

#### Construction

Silicon epitaxial planar type





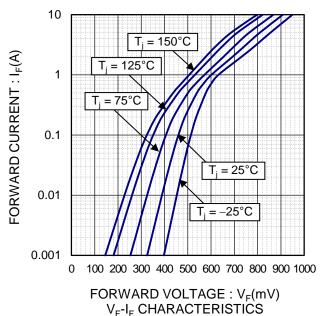
# ● Absolute Maximum Ratings (T<sub>c</sub>= 25°C)

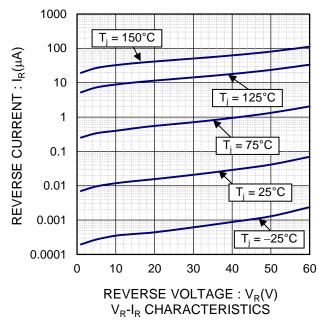
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5	60	V
Reverse voltage	$V_R$	Direct reverse voltage	60	V
Average forward rectified current	I <sub>o</sub>	Glass epoxy board mounted, 60Hz half sin wave, resistive load, $T_c=125^{\circ}C$ Max.	1	Α
Non-repetitive forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, one cycle, non-repetitive at $T_a$ =25°C	30	Α
Operating junction temperature	T <sub>j</sub>	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-55 to +150	°C

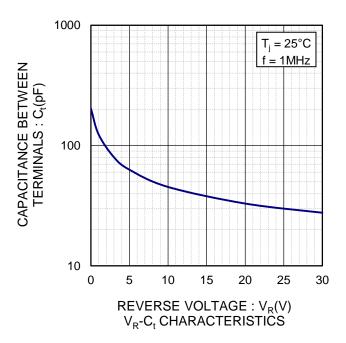
# ●Electrical Characteristics (T<sub>i</sub>= 25°C)

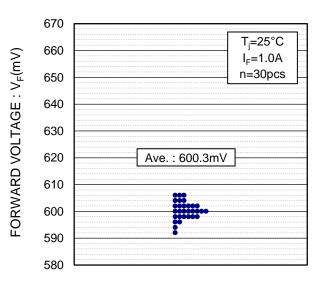
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> =1.0A	-	ı	0.68	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =60V	ı	ı	1.5	μΑ

#### • Electrical Characteristic Curves



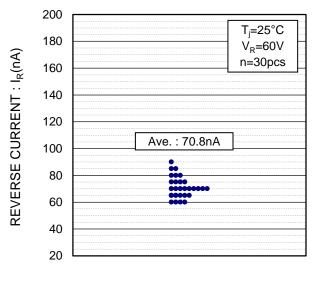


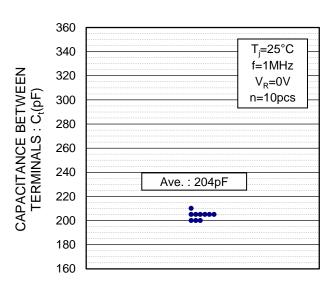




V<sub>F</sub> DISPERSION MAP

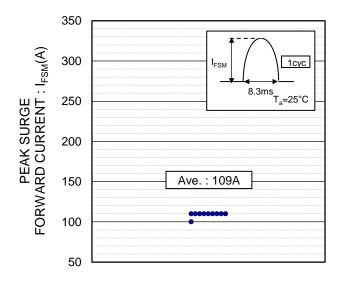
#### • Electrical Characteristic Curves



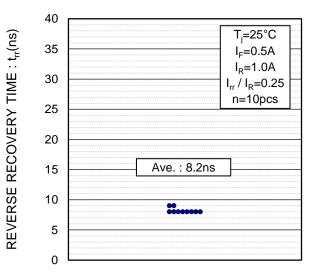


I<sub>R</sub> DISPERSION MAP

C<sub>t</sub> DISPERSION MAP

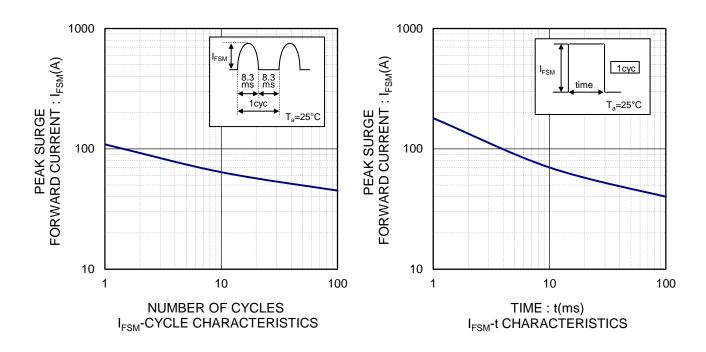


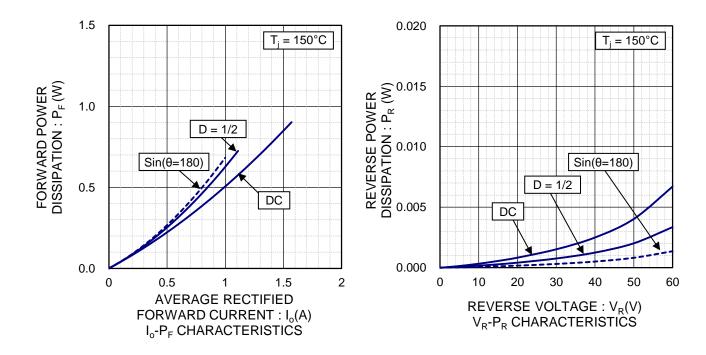
I<sub>FSM</sub> DISPERSION MAP



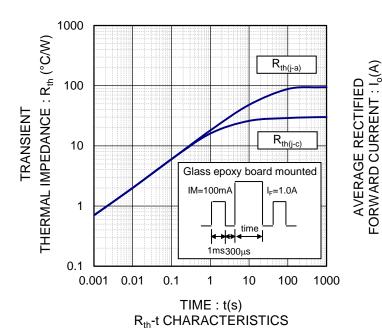
t<sub>rr</sub> DISPERSION MAP

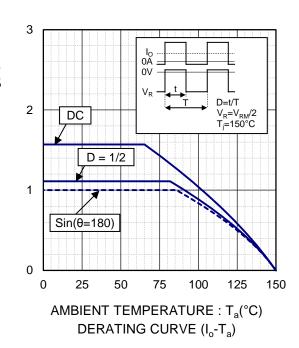
#### • Electrical Characteristic Curves

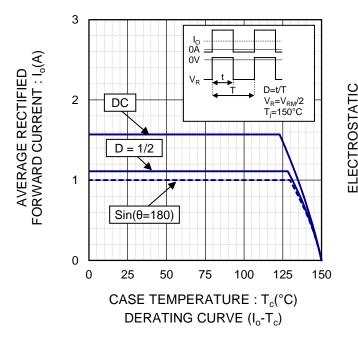


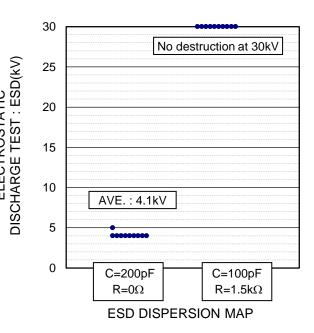


# **•**Electrical Characteristic Curves









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