RBR2MM40B Data Sheet

# Application

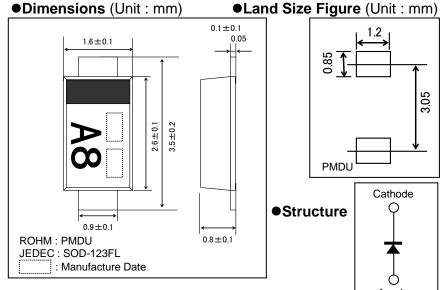
General rectification

#### Features

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

### Construction

Silicon epitaxial planar type



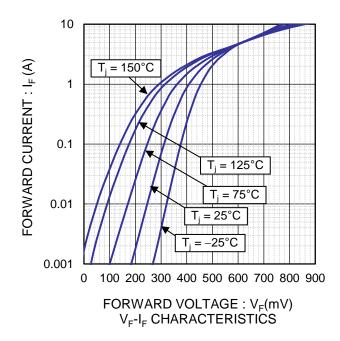
# ● Absolute Maximum Ratings (T<sub>c</sub>= 25°C)

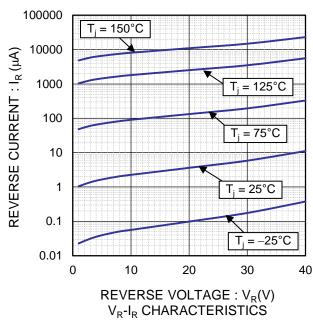
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5	40	V
Reverse voltage	$V_R$	Direct reverse voltage	40	V
Average forward rectified current	I <sub>o</sub>	Glass epoxy board mounted, 60Hz half sin wave, resistive load , $T_c$ =88 $^{\circ}$ C Max.	2	Α
Non-repetitive forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, one cycle, non-repetitive at T <sub>a</sub> =25°C	30	Α
Operating junction temperature	T <sub>j</sub>	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-55 to +150	°C

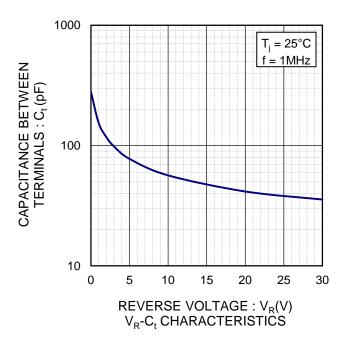
# ●Electrical Characteristics (T<sub>i</sub>= 25°C)

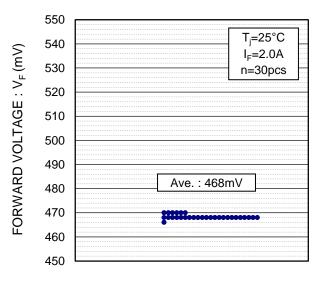
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> =2.0A	-	-	0.56	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =40V	-	-	80	μА

# **•**Electrical Characteristic Curves



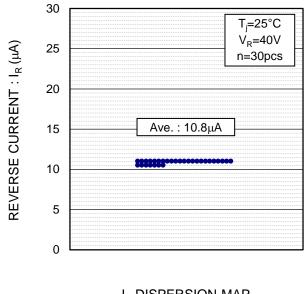


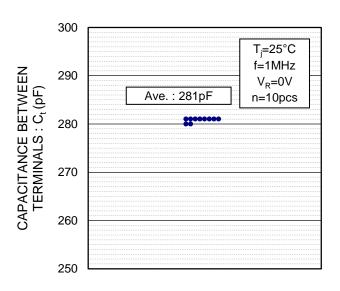




V<sub>F</sub> DISPERSION MAP

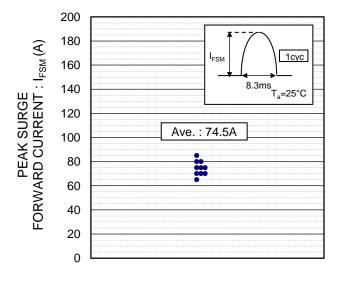
#### • Electrical Characteristic Curves



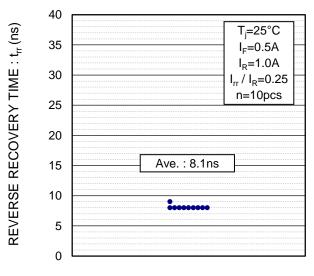


 $I_R$  DISPERSION MAP

C<sub>t</sub> DISPERSION MAP

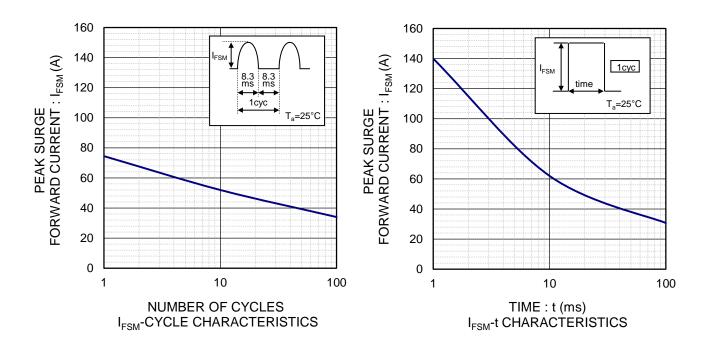


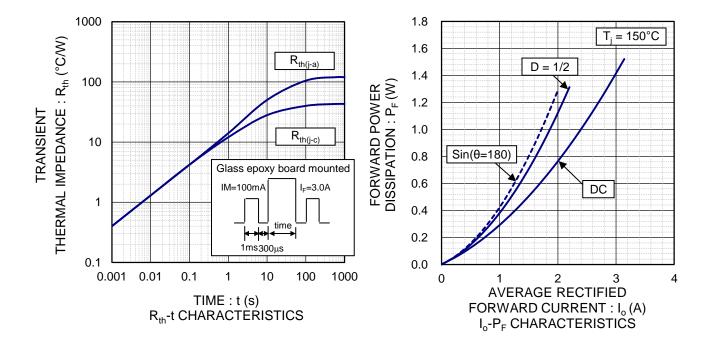
I<sub>FSM</sub> DISPERSION MAP



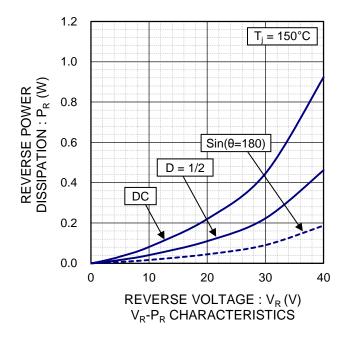
t<sub>rr</sub> DISPERSION MAP

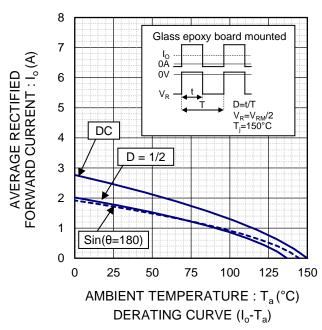
#### **•**Electrical Characteristic Curves

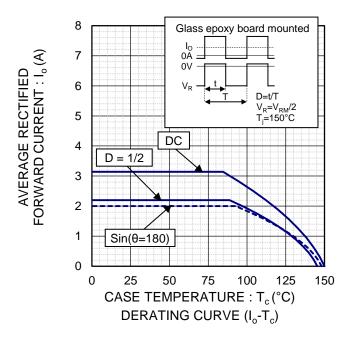


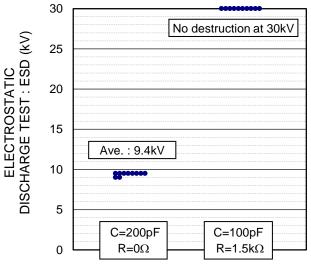


#### • Electrical Characteristic Curves









**ESD DISPERSION MAP** 

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