# Schottky Barrier Diode

RB161MM-20 Data Sheet

#### Application

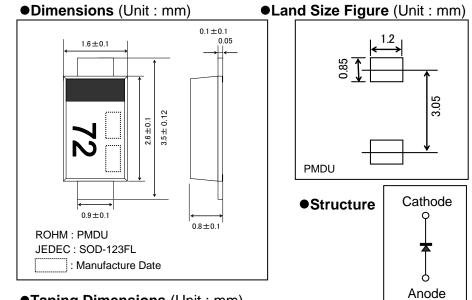
General rectification

#### Features

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

#### Construction

Silicon epitaxial planar type

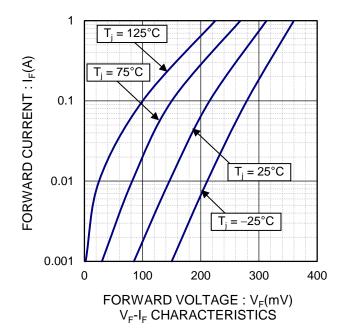


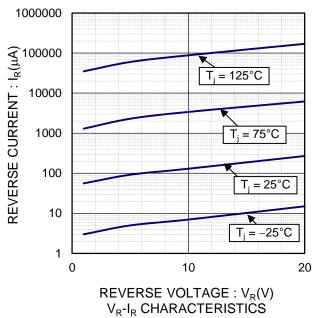
#### ● Absolute Maximum Ratings (T<sub>c</sub>= 25°C)

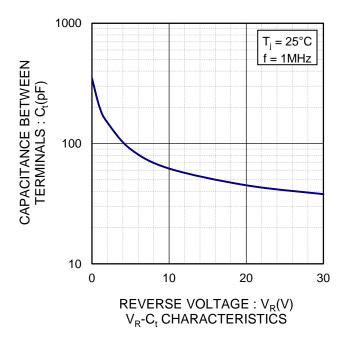
Parameter	Symbol	Conditions	Limits	Unit
Repetitive Peak Reverse Voltage	$V_{RM}$	Duty≦0.5	25	V
Reverse Voltage	$V_R$	Direct Reverse Voltage	20	V
Average Forward Rectified Current	I <sub>o</sub>	Glass epoxi mounted, 60Hz half sin Wave, resistive load	1	Α
Non-repetitive Forward Current Surge Peak	I <sub>FSM</sub>	60Hz half sin wave, Non-repetitive at $T_a$ =25°C	30	Α
Operating Junction Temperature	T <sub>j</sub>	-	125	°C
Storage Temperature	T <sub>stg</sub>	-	-40 to +125	°C

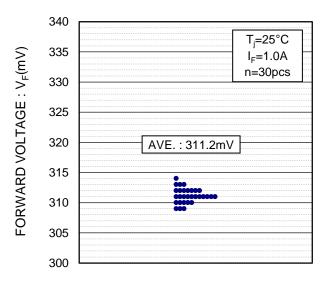
### ●Electrical Characteristics (T<sub>i</sub> = 25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	$V_{F1}$	I <sub>F</sub> =0.5A	-	0.28	0.32	V
	$V_{F2}$	I <sub>F</sub> =1.0A	-	0.31	0.35	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =20V	-	280	700	μА

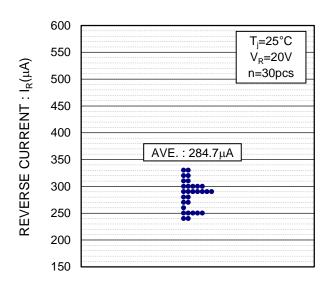


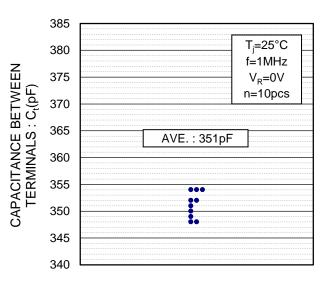






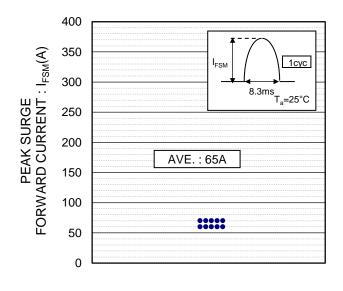
V<sub>F</sub> DISPERSION MAP



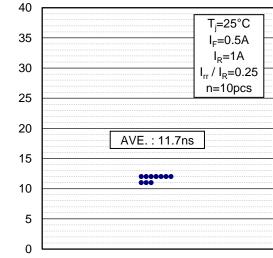


I<sub>R</sub> DISPERSION MAP

C<sub>t</sub> DISPERSION MAP

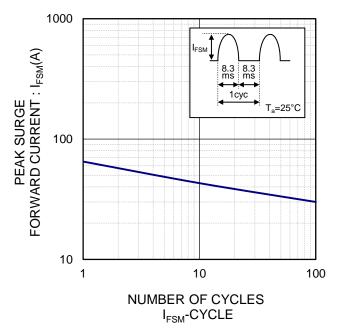


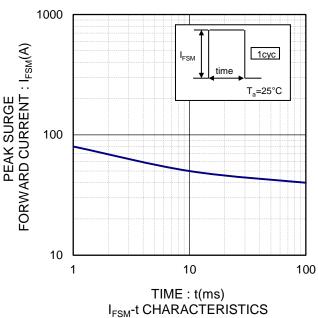
REVERSE RECOVERY TIME : t<sub>rr</sub>(ns)

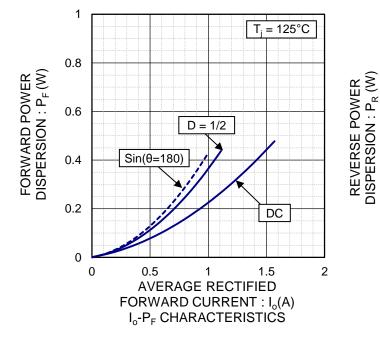


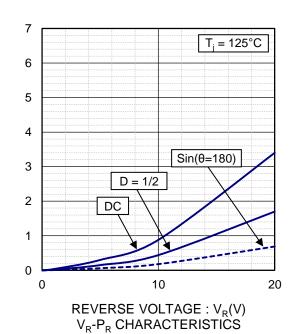
I<sub>FSM</sub> DISPERSION MAP

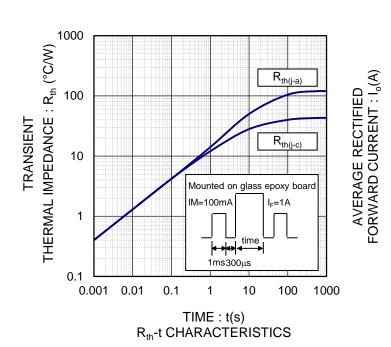
t<sub>rr</sub> DISPERSION MAP

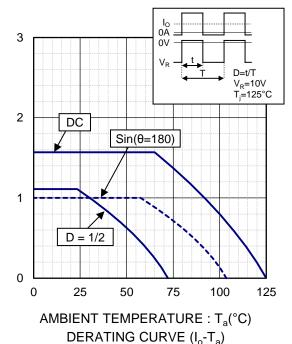


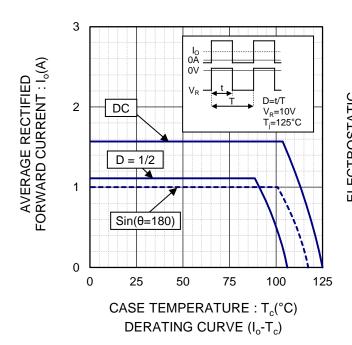


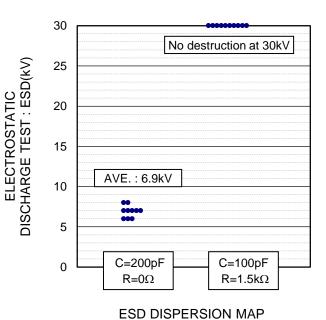












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