Schottky Barrier Diode

RB168MM-40 Data Sheet

Application

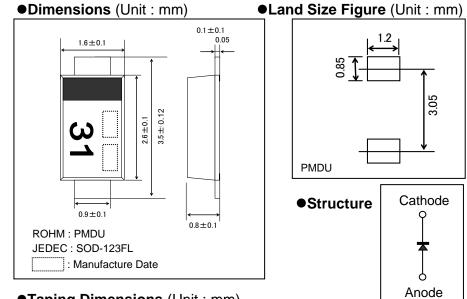
General rectification

Features

- Small power mold type (PMDU)
- 2) High reliability
- 3) Super low I_R

Construction

Silicon epitaxial planar type



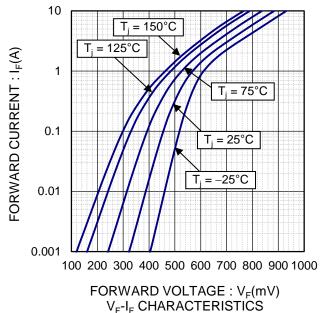
● Absolute Maximum Ratings (T_c= 25°C)

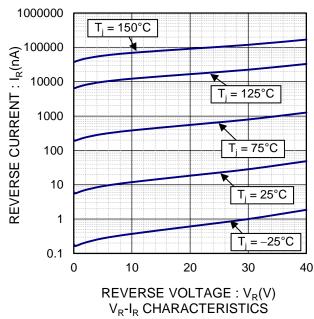
Parameter	Symbol	Conditions	Limits	Unit
Repetitive Peak Reverse Voltage	V_{RM}	Duty≦0.5	40	V
Reverse Voltage	V_R	Direct Reverse Voltage	40	V
Average Forward Rectified Current	I _o	Glass epoxi mounted, 60Hz half sin Wave, resistive load,	1	Α
Non-repetitive Forward Current Surge Peak	I _{FSM}	60Hz half sin wave, one cycle, Non-repetitive at T _a =25°C	30	Α
Operating Junction Temperature	T _j	-	150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C

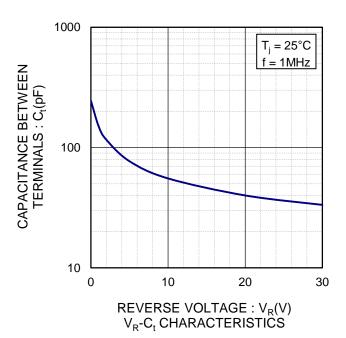
●Electrical Characteristics (T_i = 25°C)

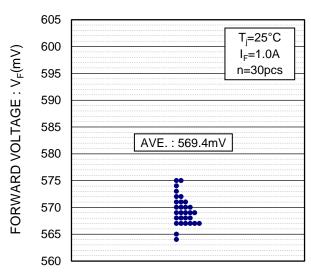
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	V_{F1}	I _F =1.0A	-	0.60	0.65	V
Reverse Current	I _R	V _R =40V	-	0.05	0.55	μА

•Electrical Characteristic Curves



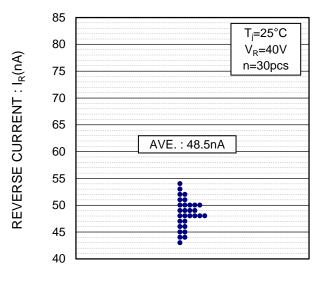


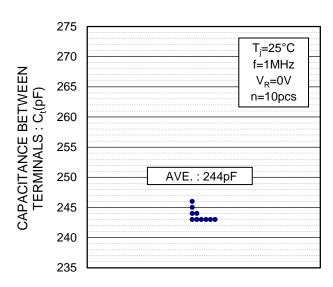




V_F DISPERSION MAP

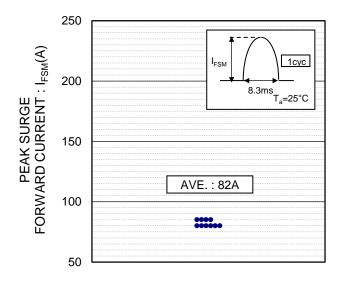
• Electrical Characteristic Curves



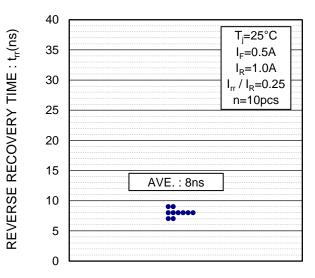


I_R DISPERSION MAP

C_t DISPERSION MAP

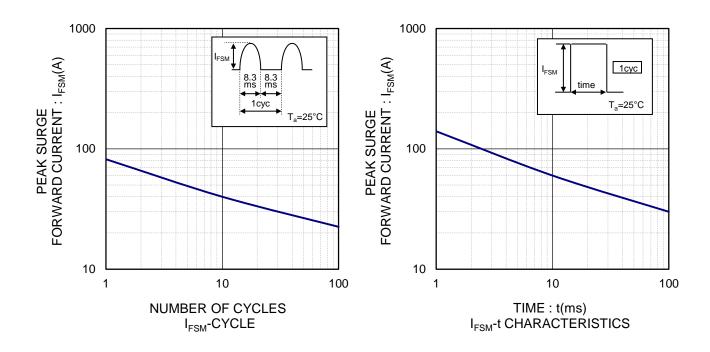


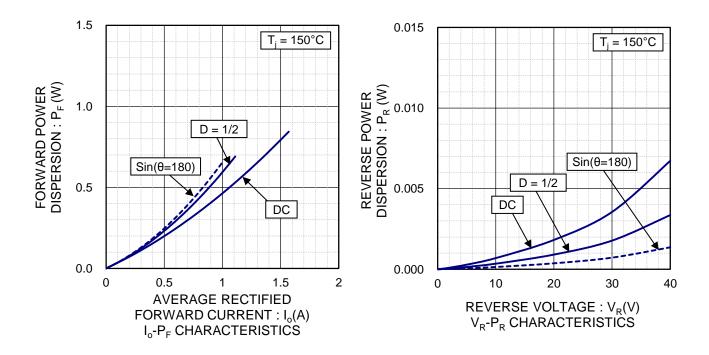
I_{FSM} DISPERSION MAP



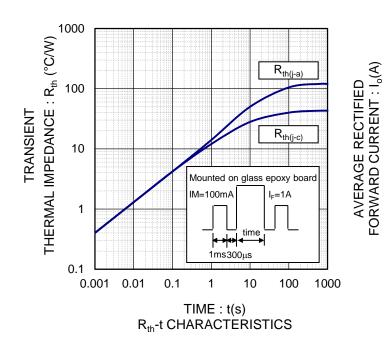
t_{rr} DISPERSION MAP

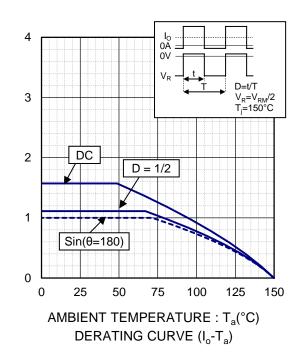
•Electrical Characteristic Curves

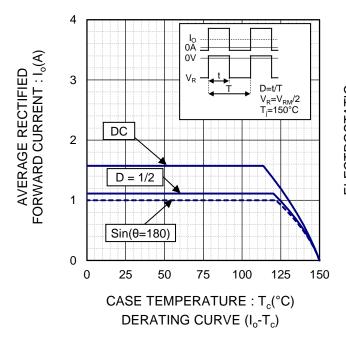


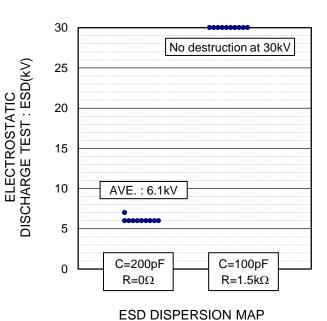


• Electrical Characteristic Curves









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