Schottky Barrier Diode

RB168L-40 Data Sheet

Application

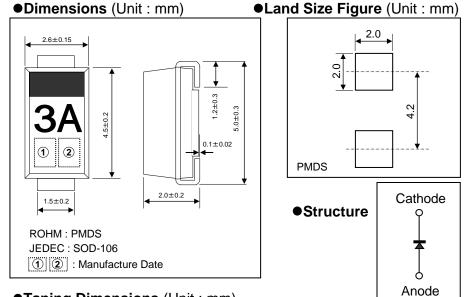
General rectification

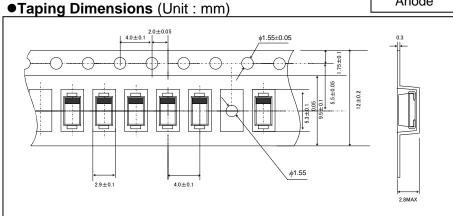
Features

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

Construction

Silicon epitaxial planar type





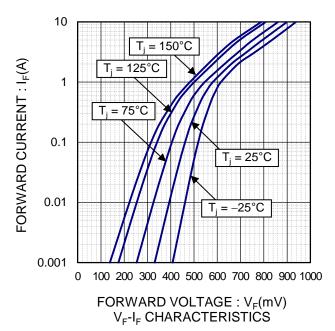
● Absolute Maximum Ratings (T_c= 25°C)

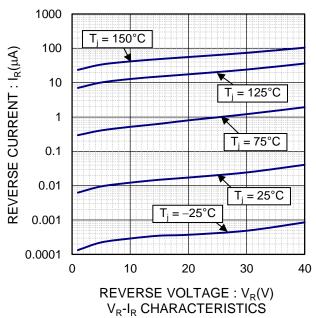
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	40	V
Reverse voltage	V_R	Direct reverse voltage	40	V
Average forward rectified current	I _o	Glass epoxy board mounted, 60Hz half sin wave, resistive load, $T_c=125^{\circ}C$ Max.	1	Α
Non-repetitive forward current 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

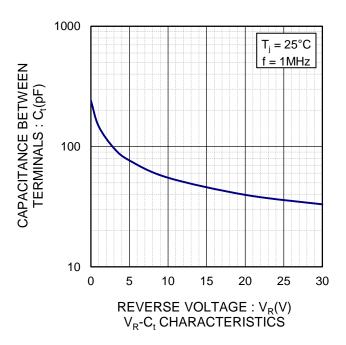
●Electrical Characteristics (T_i= 25°C)

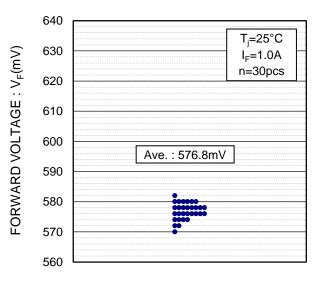
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =1.0A	ı	ı	0.65	V
Reverse current	I _R	V _R =40V	ı	ı	0.55	μΑ

•Electrical Characteristic Curves



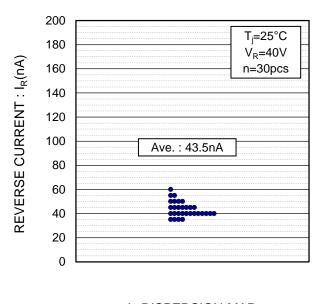


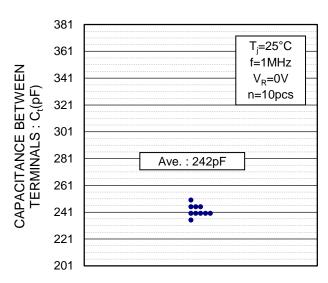




V_F DISPERSION MAP

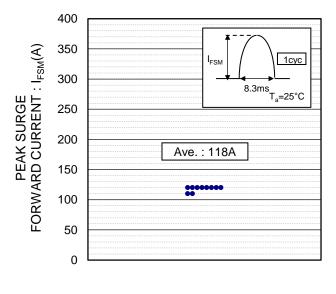
• Electrical Characteristic Curves



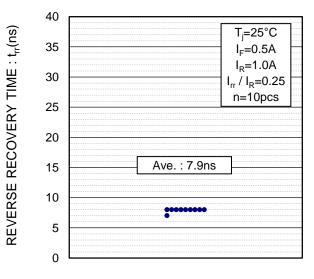


I_R DISPERSION MAP

C_t DISPERSION MAP

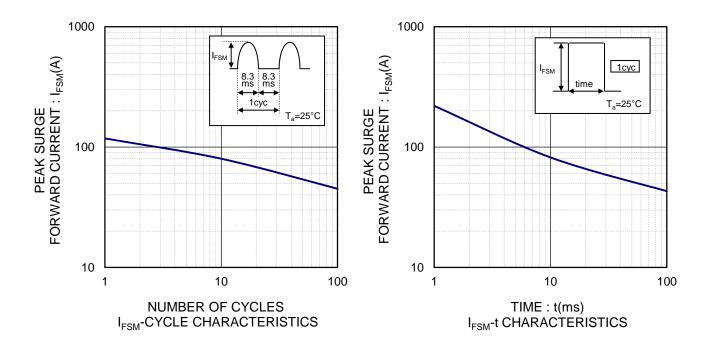


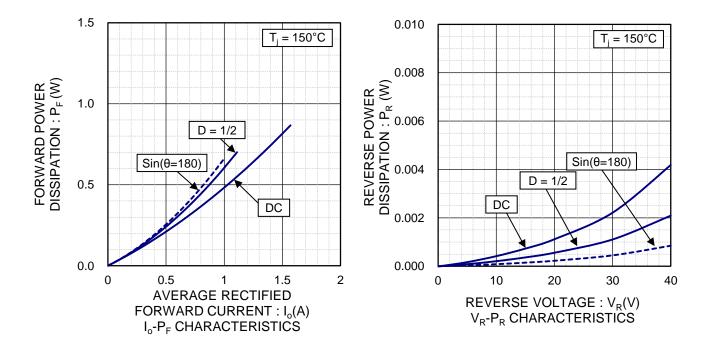
I_{FSM} DISPERSION MAP



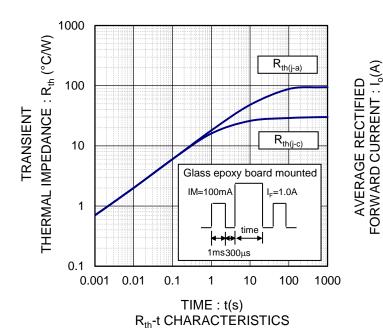
 t_{rr} DISPERSION MAP

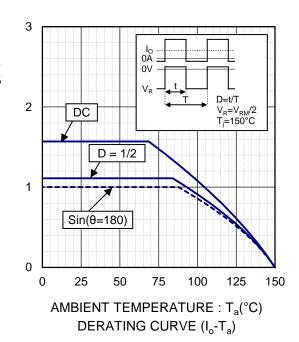
• Electrical Characteristic Curves

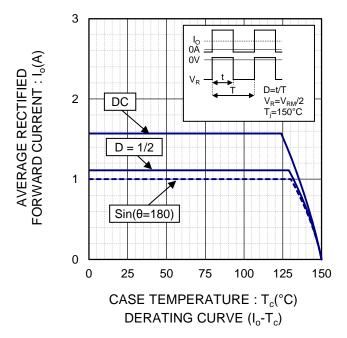


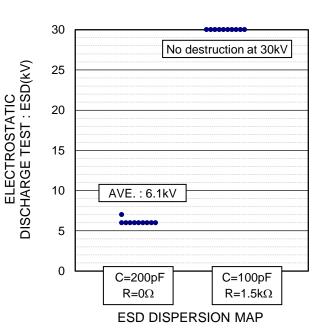


• Electrical Characteristic Curves









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