Schottky Barrier Diode

RB540VM-30 Data Sheet

Application

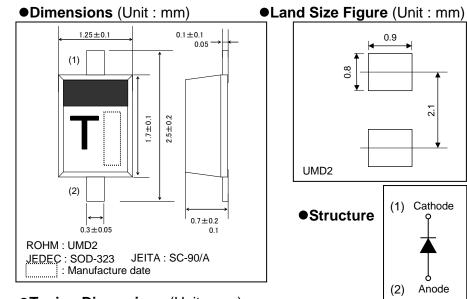
General rectification

Features

- Ultra small mold type (UMD2)
- 2) High reliability
- 3) Low V_F

Construction

Silicon epitaxial planar type



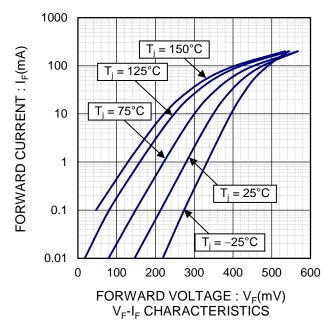
● Absolute Maximum Ratings (T_c= 25°C)

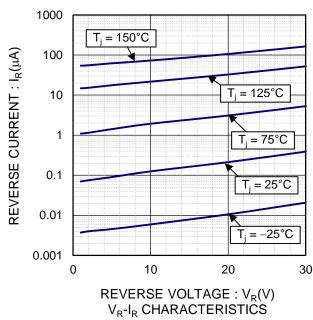
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	30	V
Reverse voltage	V_R	Direct reverse voltage	30	V
Average forward rectified current	I _o	Glass epoxy board mounted, 60Hz half sin wave, resistive load	200	mA
Non-repetitive forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive at T _a =25°C , 1cycle	1000	mA
Operating junction temperature	T _j	•	150	°C
Storage temperature	T _{stg}	-	-55 to +150	°C

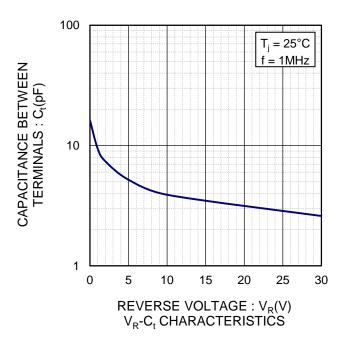
●Electrical Characteristics (T_i= 25°C)

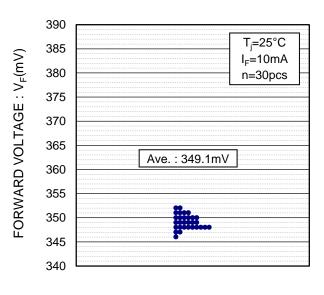
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =10mA	ı	1	0.45	V
Reverse current	I _R	V _R =10V	ı	ı	0.5	μΑ

• Electrical Characteristic Curves



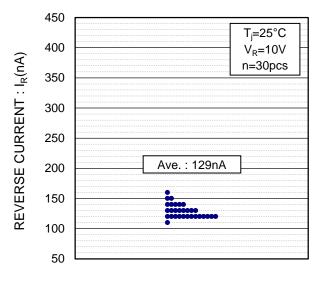


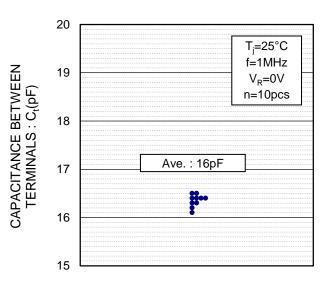




V_F DISPERSION MAP

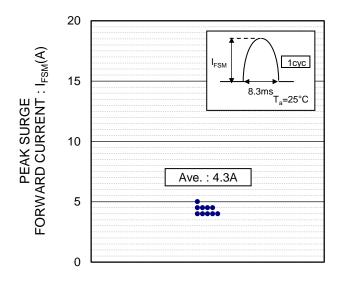
•Electrical Characteristic Curves



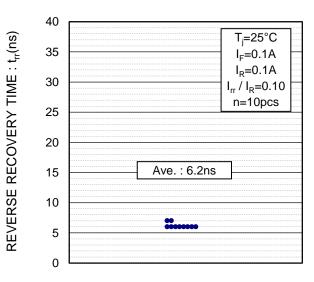


I_R DISPERSION MAP

C_t DISPERSION MAP

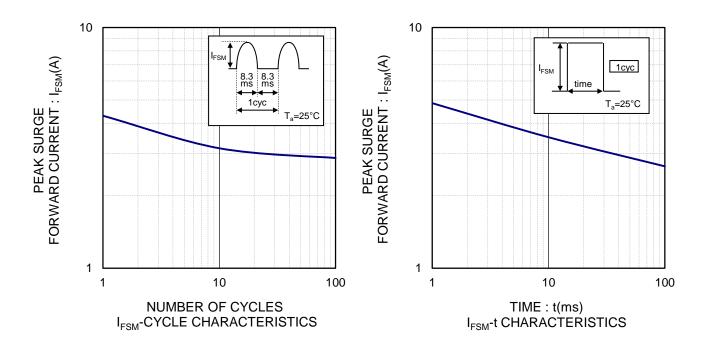


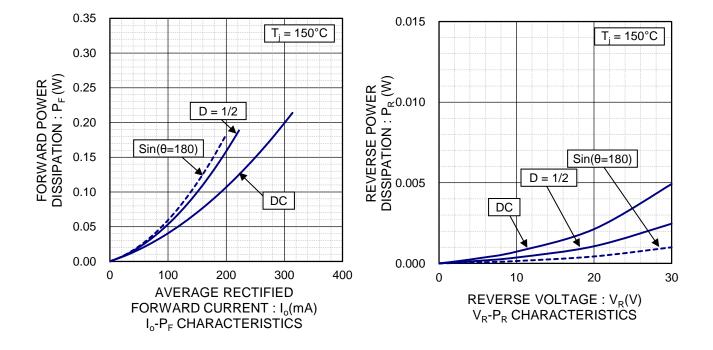
I_{FSM} DISPERSION MAP



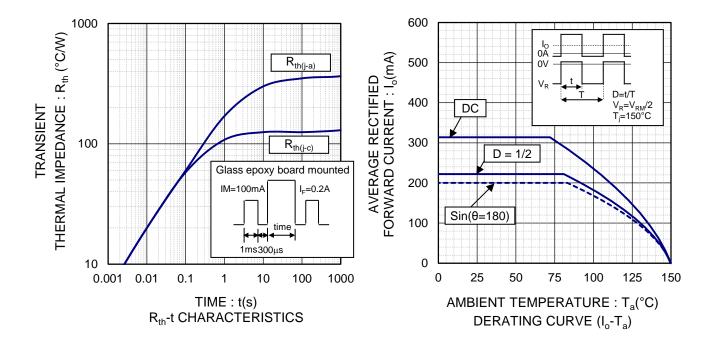
t_{rr} DISPERSION MAP

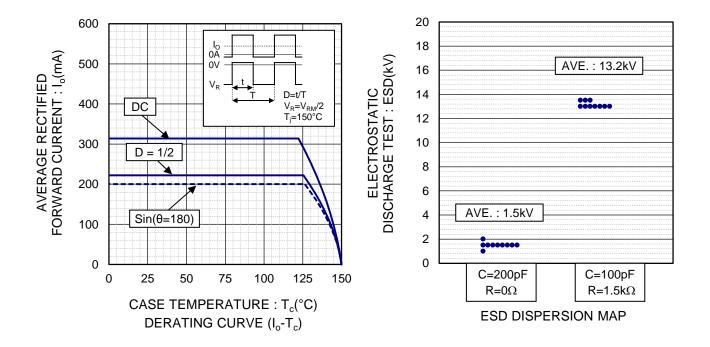
•Electrical Characteristic Curves





•Electrical Characteristic Curves





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