Schottky Barrier Diode

RB238T150 Data Sheet

Application

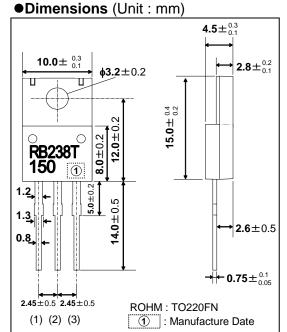
Switching power supply

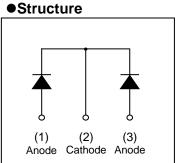
Features

- 1) Cathode common type
- 2) High reliability
- 3) Super low I_R

Construction

Silicon epitaxial planar type





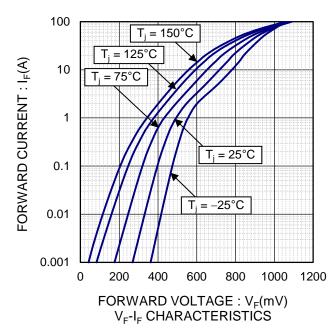
● Absolute Maximum Ratings (T_c= 25°C)

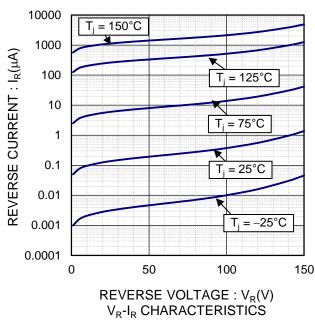
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	150	V
Reverse voltage	V_R	Direct reverse voltage	150	V
Average forward rectified current	I _o	Glass epoxy board mounted, 60Hz half sin wave, resistive load, T_c =85°C Max., I_O /2 per diode	40	Α
Non-repetitive forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive at T _a =25°C, 1cycle, per diode	100	Α
Operating junction temperature	T_j	-	150	°C
Storage temperature	T_{stg}	•	-55 to +150	°C

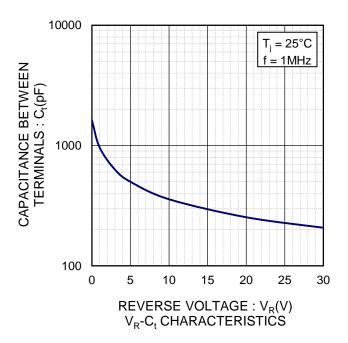
●Electrical and Thermal Characteristics (T_i= 25°C)

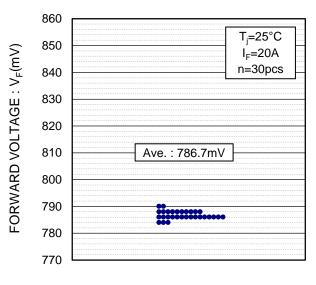
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =20A	1	-	0.87	V
Reverse current	I _R	V _R =150V	-	-	30	μΑ
Thermal resistance	R _{th(j-c)}	Junction to case	-	-	2	°C/W

•Electrical Characteristic Curves



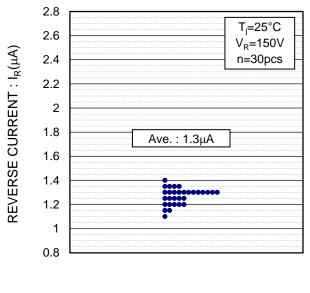


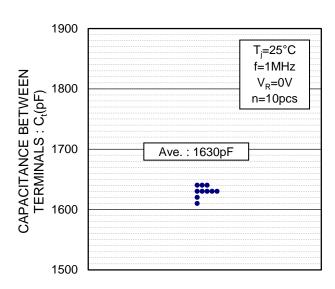




V_F DISPERSION MAP

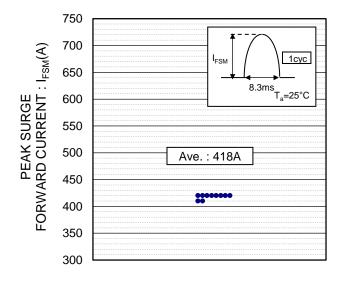
• Electrical Characteristic Curves



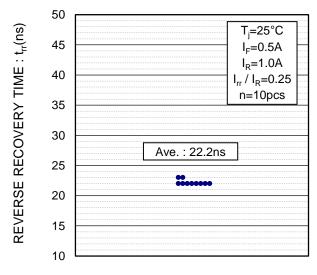


 ${\sf I}_{\sf R}$ DISPERSION MAP

C_t DISPERSION MAP

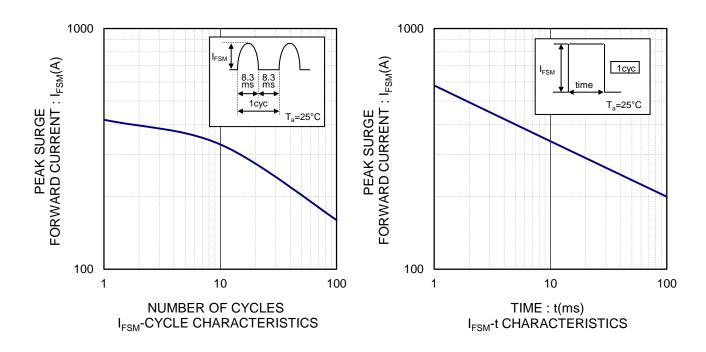


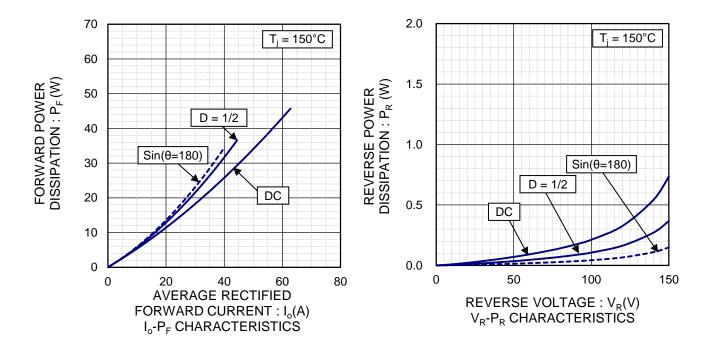
I_{FSM} DISPERSION MAP



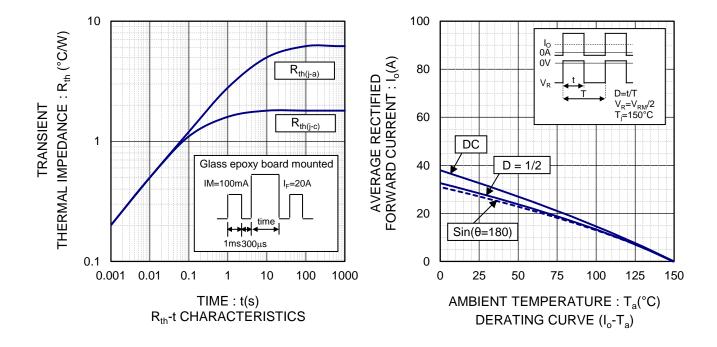
t_{rr} DISPERSION MAP

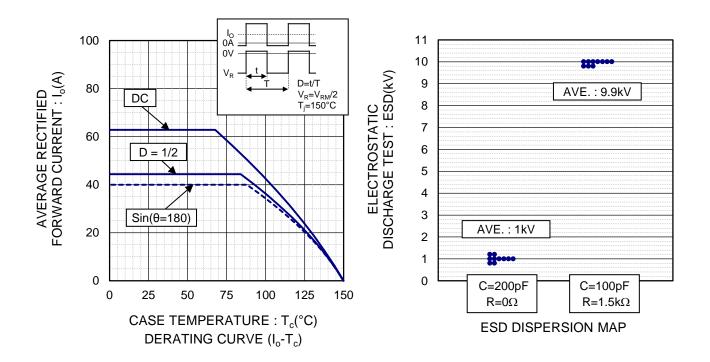
•Electrical Characteristic Curves





•Electrical Characteristic Curves





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