

Schottky barrier diode

RB085T-90

Applications

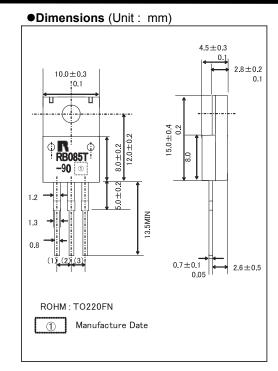
Switching power supply

● Features

- 1) Cathode common type.
- (TO-220)
- 2) Low I_R
- 3) High reliability

Construction

Silicon epitaxial planer



●Structure



●Absolute maximum ratings (Ta=25°C)

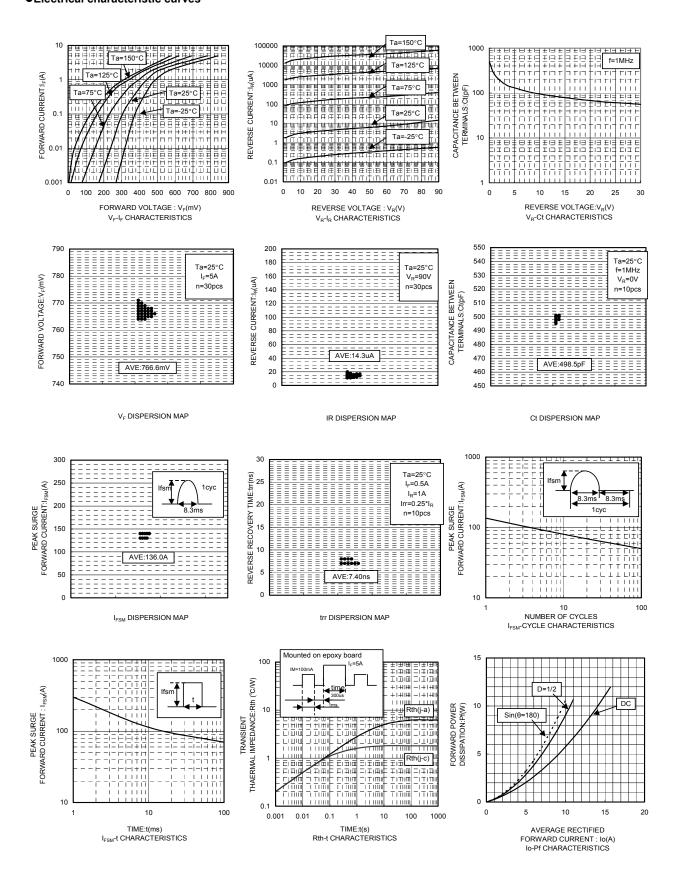
Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V_{RM}	90	V	
Reverse voltage (DC)	V_R	90	V	
Average rectified forward current (*1)	lo	10	Α	
Forward current surge peak (60Hz / 1cyc) (*1)	I_{FSM}	100	Α	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	−40 to +150	°C	

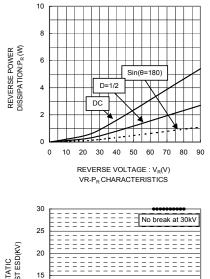
^(*1)Business frequencies, Rating of R-load, 1/2 lo per diode, Tc=122°C

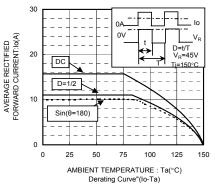
●Electrical characteristic (Ta=25°C)

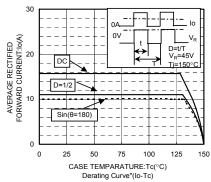
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	-	0.83	V	I _F =5A
Reverse current	I _R	-	1	150	μΑ	V _R =90
Thermal impedance	θјс	-	-	2.5	°C/W	junction to case

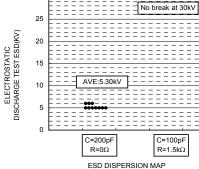
Electrical characteristic curves











Notes

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