Schottky barrier diode RB085T-90

Applications

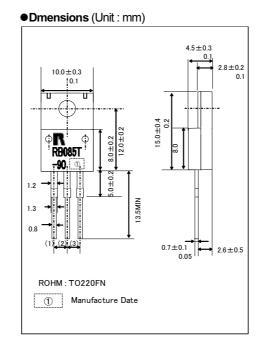
Switching power supply

● Features

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

●Construction

Silicon epitaxial planar



●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

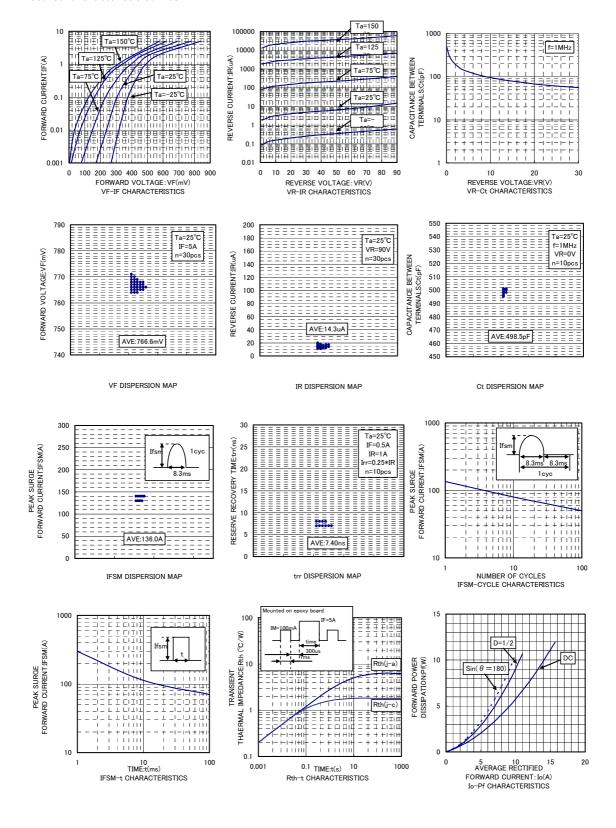
^(*1)Business frequencies, Rating of R-load, 1/2 lo per diode, Tc=122°C

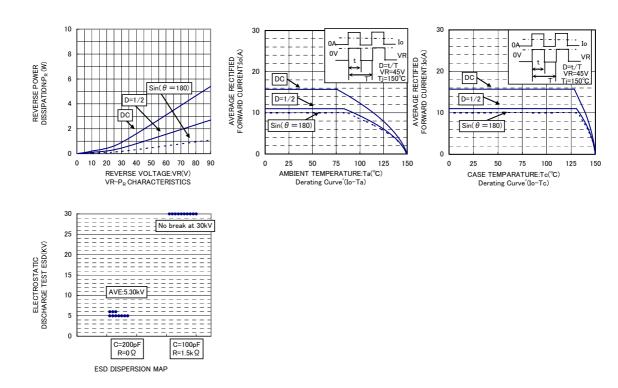
●Electrical characteristic (Ta=25°C)

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

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●Electrical characteristic curves





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