Structure

Schottky barrier diode RB085T-90

Applications

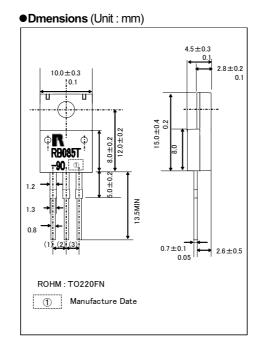
Switching power supply

Features

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

Construction

Silicon epitaxial planar



●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	А	
Forward current surge peak (60Hz · 1cyc) (*1)	I _{FSM}	100	А	
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

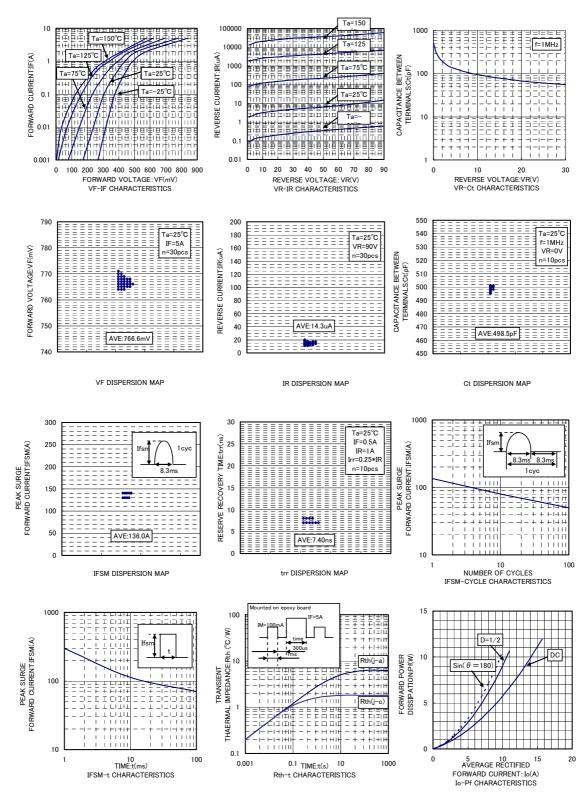
•Electrical characteristic (Ta=25°C)

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



Diodes

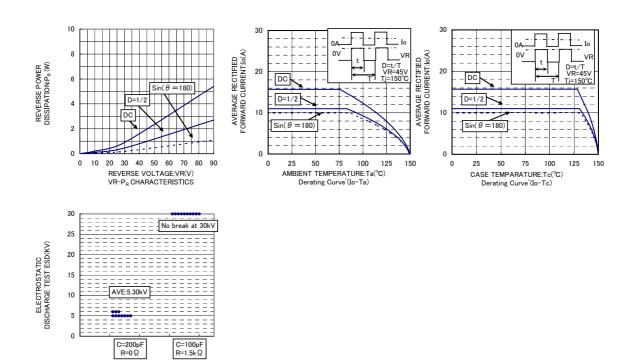
Electrical characteristic curves



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ESD DISPERSION MAP



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Appendix1-Rev2.0

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