Schottky barrier diode RB205T-40

Applications

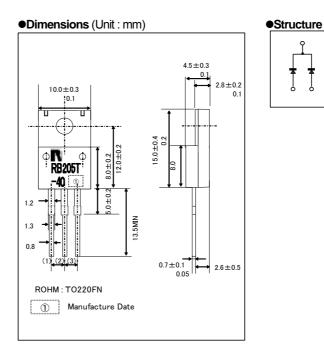
Switching power supply

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}	45	V	
Reverse voltage (DC)	V _R	40	V	
Average rectified forward current(*1)	lo	15	Α	
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=125°C

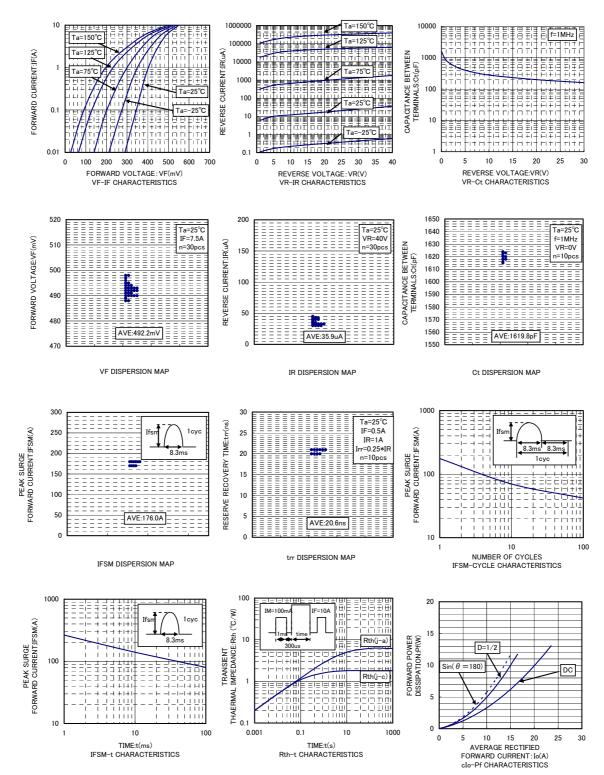
•Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward characteristics	V _F	-	-	0.55	V	I _F =7.5A
Reverse characteristics	I _R	-	-	300	μA	V _R =40V
Thermal impedance	θјс	-	-	2.0	°C/W	junction to case

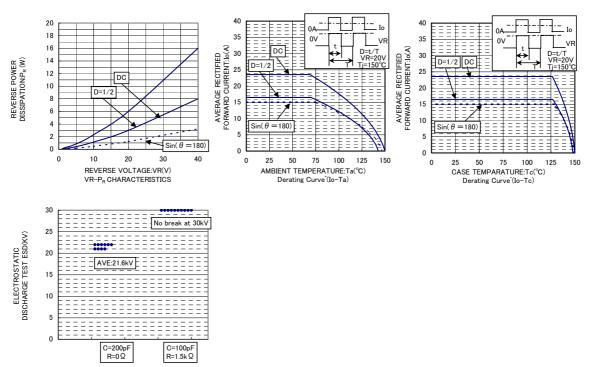
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Diodes

•Electrical characteristic curves



Rev.C 2/3



ESD DISPERSION MAP

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Appendix1-Rev2.0

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