

Schottky barrier diode

RB205T-40

Applications

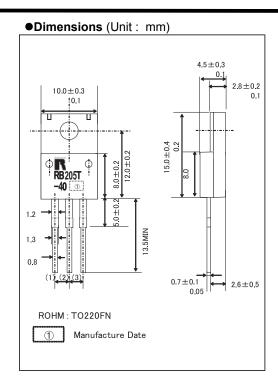
Switching power supply

Features

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

Construction

Silicon epitaxial planer







•Absolute maximum ratings (Ta=25°C)

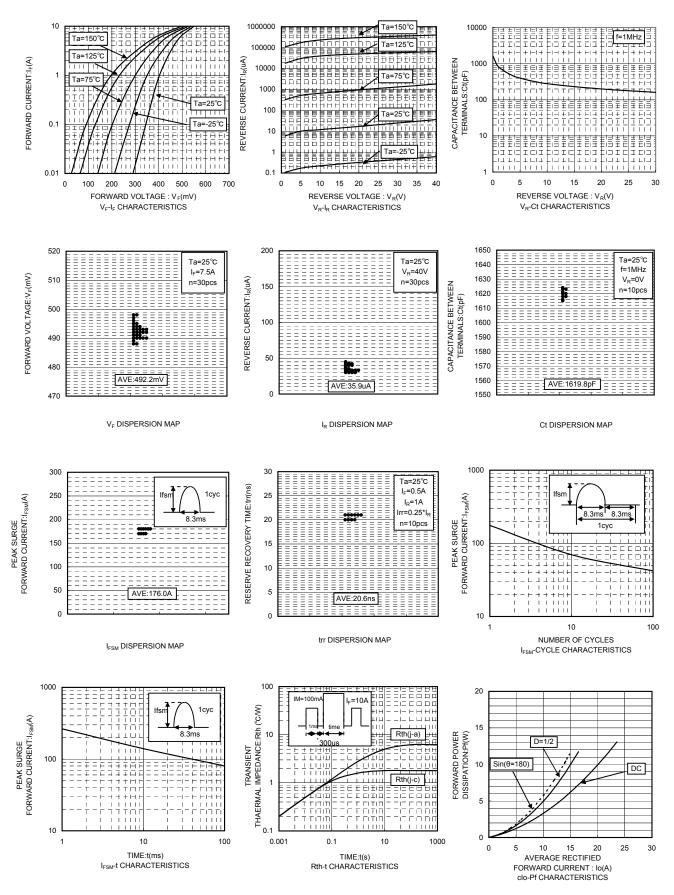
Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V _{RM}	45	V	
Reverse voltage (DC)	V _R	40	V	
Average rectified forward current (*1)	lo	15	Α	
Forward current surge peak (60Hz / 1cyc) (*1)	I _{FSM}	100	А	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-40 to +150	°C	

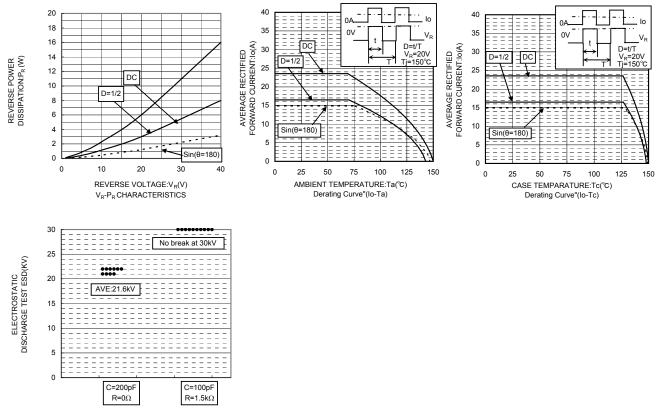
(*1)Business frequencies, Rating of R-load, 1/2 lo per diode, Tc=125°C

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	0.55	V	I _F =7.5A
Reverse current	I _R	-	-	300	μA	V _R =40V
Thermal impedance	θјс	-	-	2	°C/W	junction to case

Electrical characteristic curves





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