

Schottky barrier diode

RB205T-40

● Applications

Switching power supply

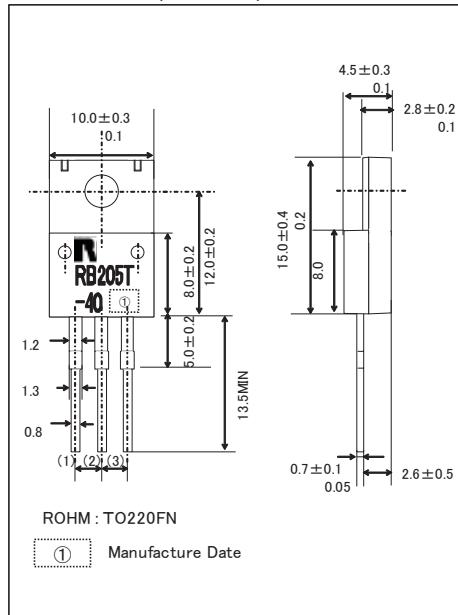
● Features

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

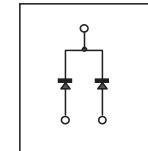
● Construction

Silicon epitaxial planar

● Dimensions (Unit : mm)



● Structure



● Absolute maximum ratings ($T_a=25^\circ C$)

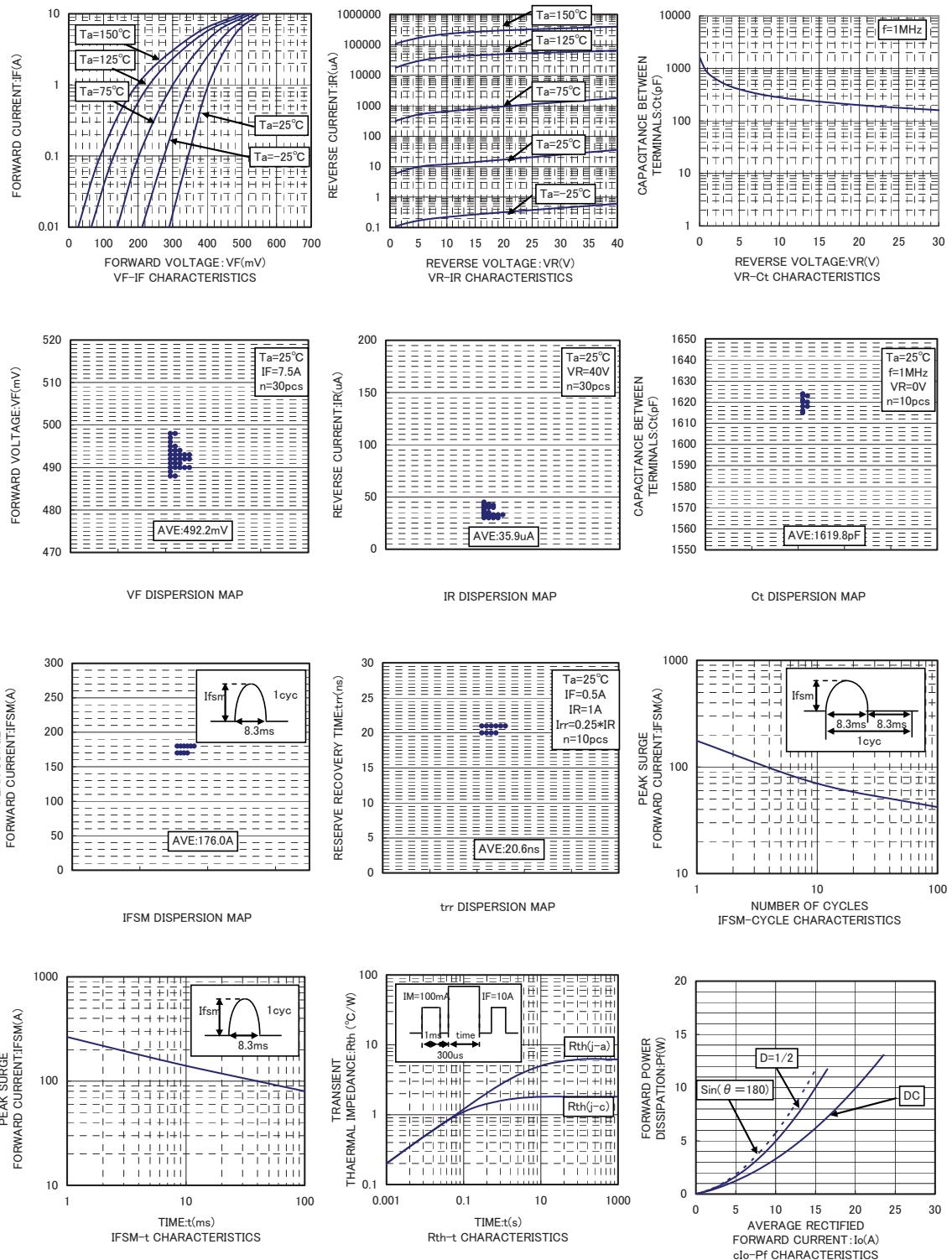
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	45	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current(*1)	I_o	15	A
Forward current surge peak (60Hz · 1cyc) (*1)	I_{FSM}	100	A
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-40 to +150	$^\circ C$

(*1)Business frequencies, Rating of R-load, 1/2 I_o per diode, $T_c=125^\circ C$

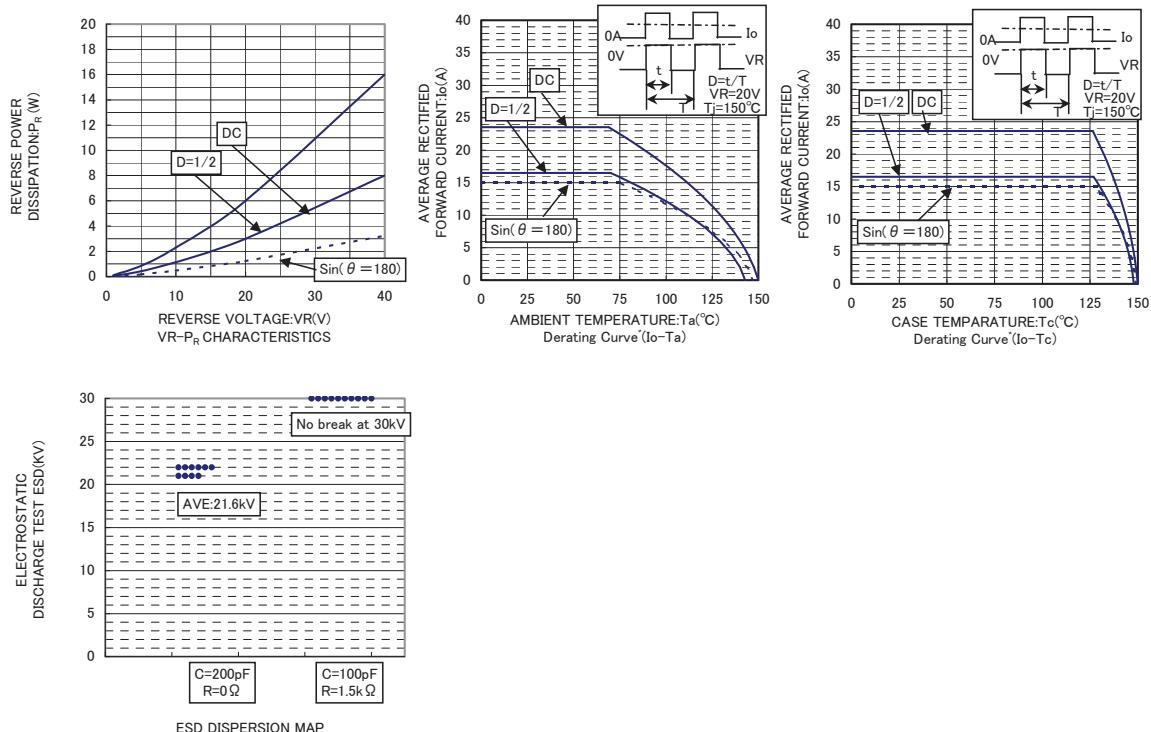
● Electrical characteristic ($T_a=25^\circ C$)

Parameter	Symbol	Min.	Typ.	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	θ_{jc}	-	-	2.0	$^\circ C/W$	junction to case

● Electrical characteristic curves



Diodes



Appendix

Notes

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