

Diodes

Schottky barrier diode

RB205T-40

●Applications

Switching power supply

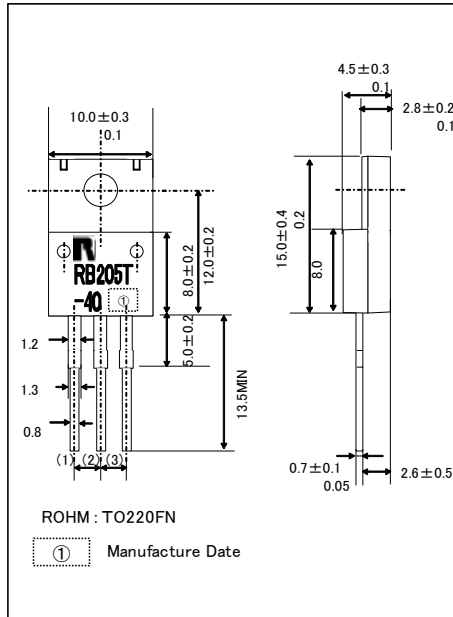
●Features

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

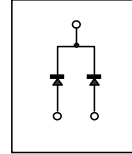
●Construction

Silicon epitaxial planar

●External dimensions (Unit : mm)



●Structure



●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)	I_o	15	A
Forward current surge peak (60Hz·1cyc) (*1)	I_{FSM}	100	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

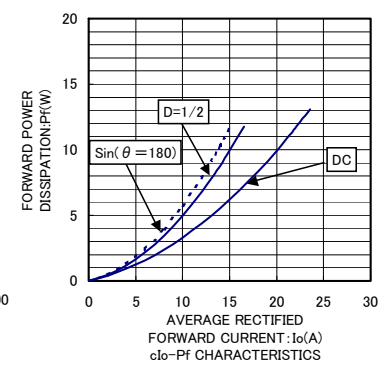
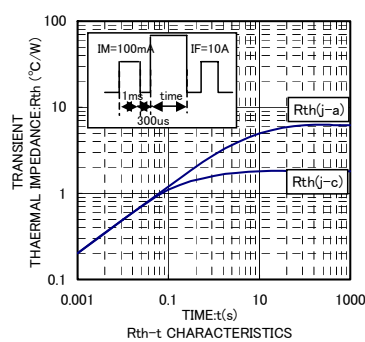
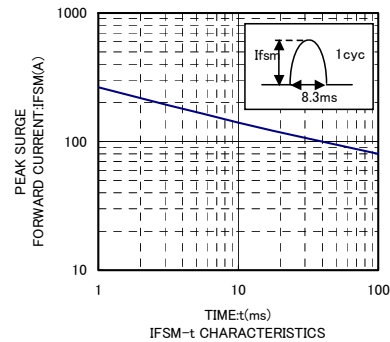
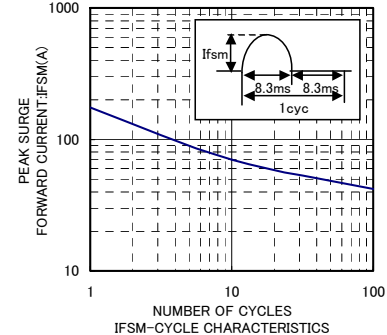
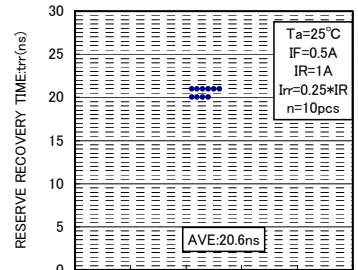
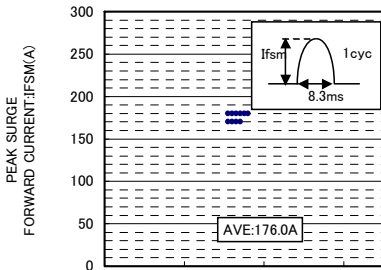
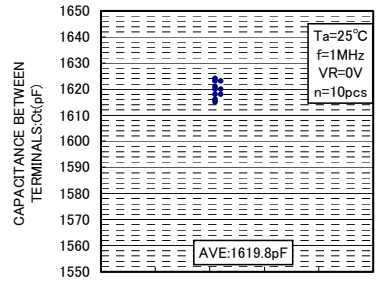
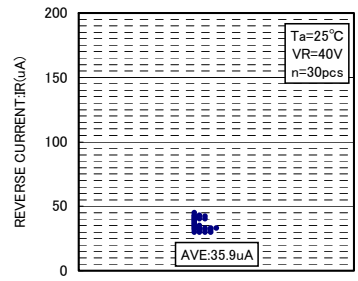
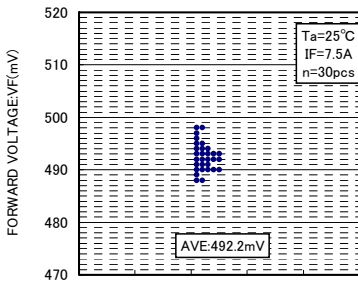
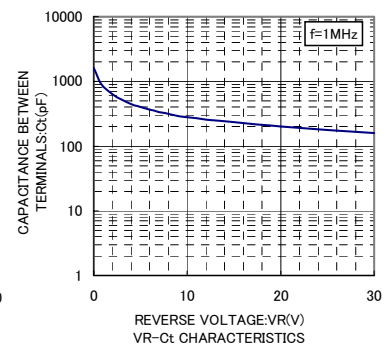
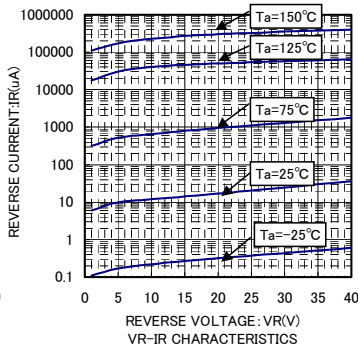
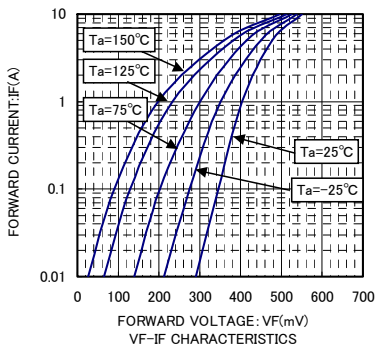
(*1) $T_c=100^{\circ}C_{max}$ Per chip : $I_o/2$

●Electrical characteristic (Ta=25°C)

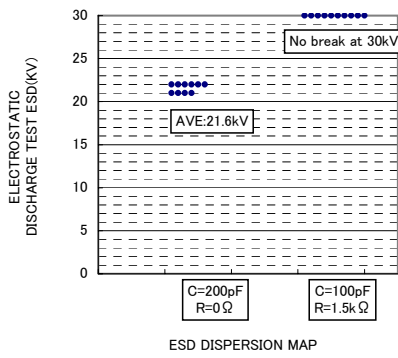
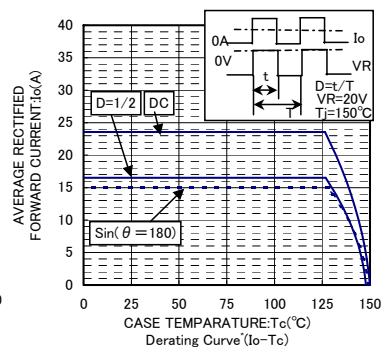
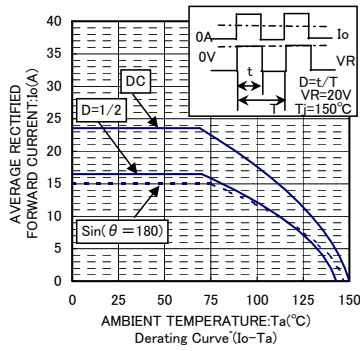
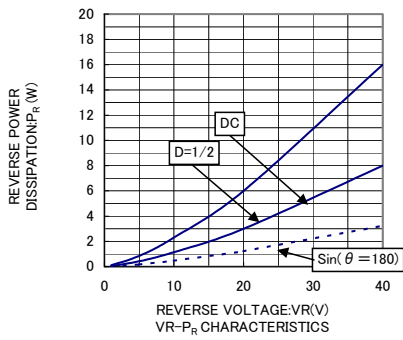
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward characteristics	V_F	-	-	0.55	V	$I_F=7.5A$
Reverse characteristics	I_R	-	-	300	μA	$V_R=40V$
Thermal impedance	θ_{jc}	-	-	2.0	°C/W	junction to case

Diodes

●Electrical characteristic curves



Diodes



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