

Schottky Barrier Diode

RB225T-40

● Applications

Switching power supply

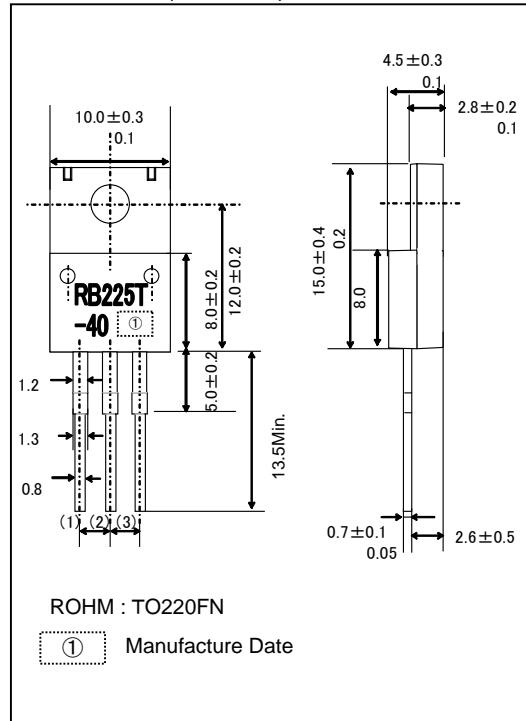
● Features

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

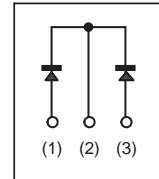
● Construction

Silicon epitaxial planer

● Dimensions (Unit : mm)



● Structure



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits		Unit
Reverse voltage (repetitive)	V_{RM}	40		V
Reverse voltage (DC)	V_R	40		V
Average rectified forward current(*1)	I_o	30		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

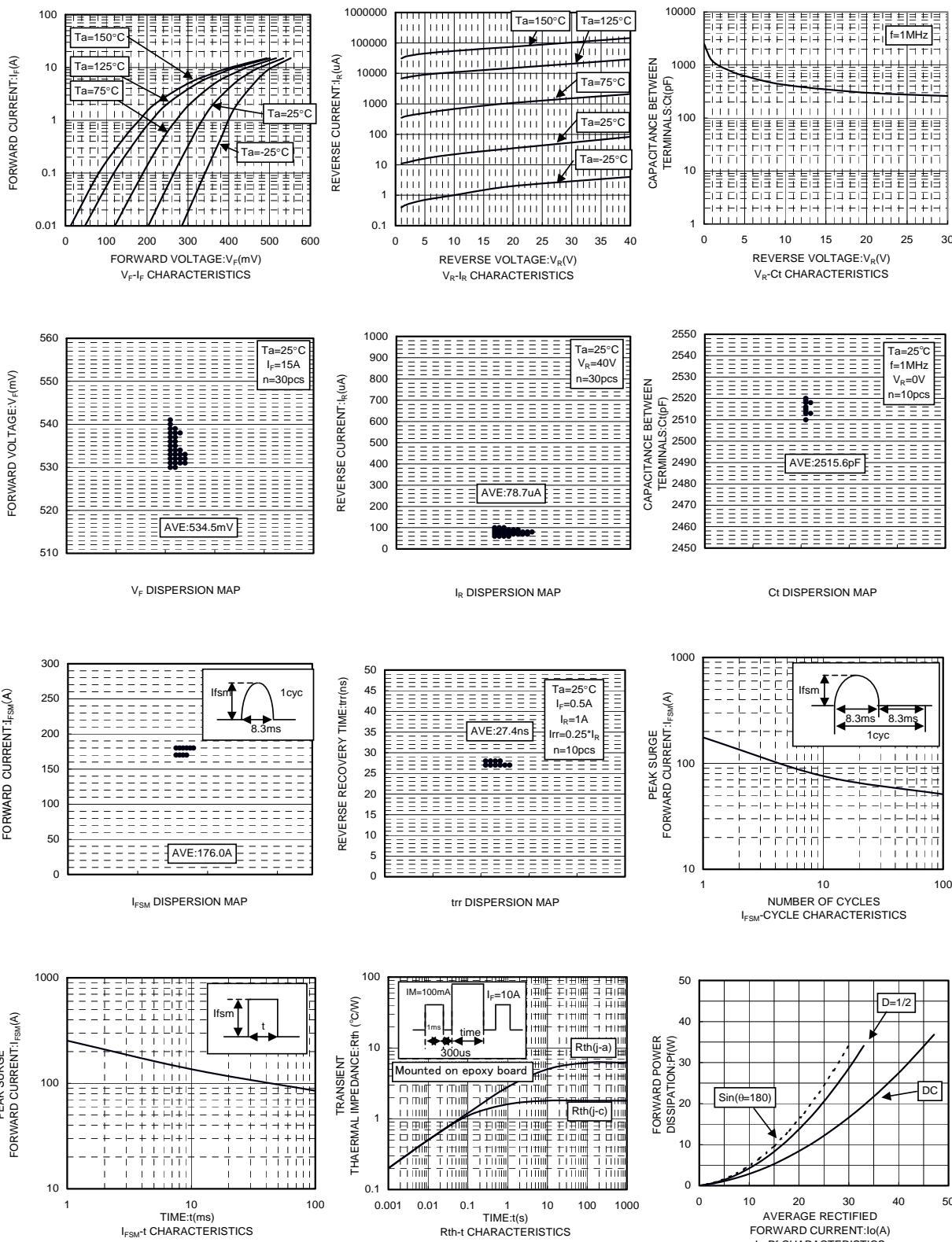
(*1) $T_c=105^{\circ}\text{C}$ max Per chip: $I_o/2$

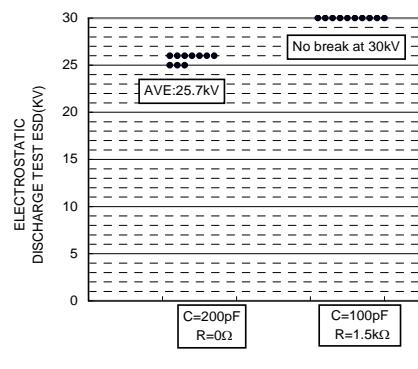
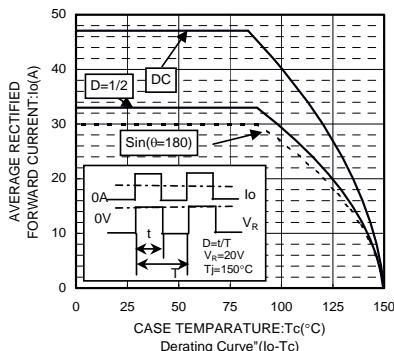
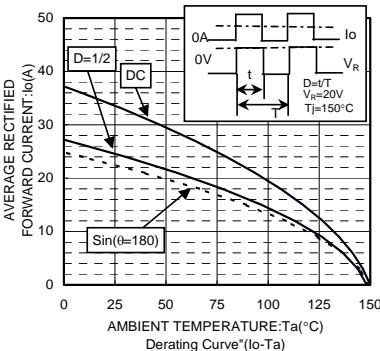
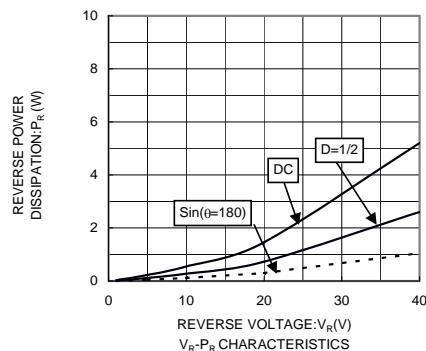
● Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.63	V	$I_F=15\text{A}$
Reverse current	I_R	-	-	500	μA	$V_R=40\text{V}$
Thermal impedance	θ_{jc}	-	-	(1.75)	°C/W	junction to case

() : tentative

● Electrical characteristic curves





ESD DISPERSION MAP

Notes

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