

Schottky Barrier Diode

RB225T-40

●Applications

Switching power supply

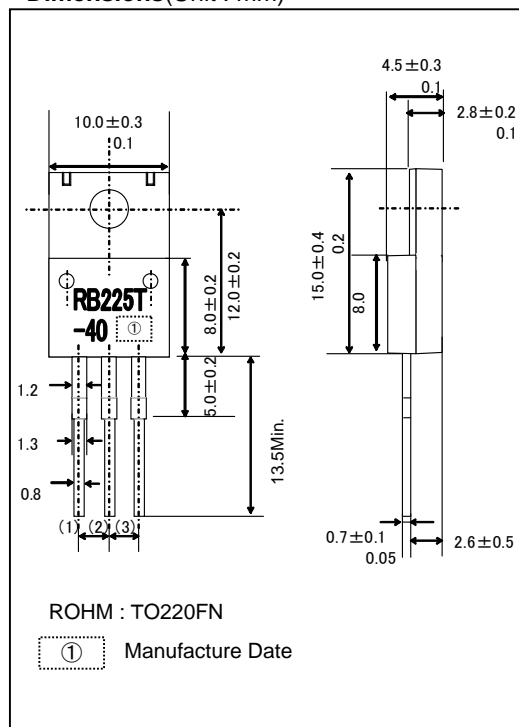
●Features

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

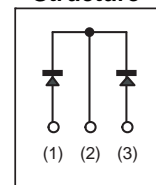
●Construction

Silicon epitaxial planar

●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

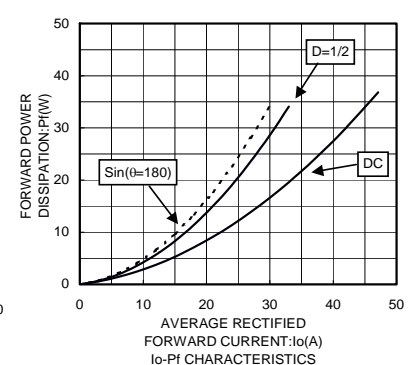
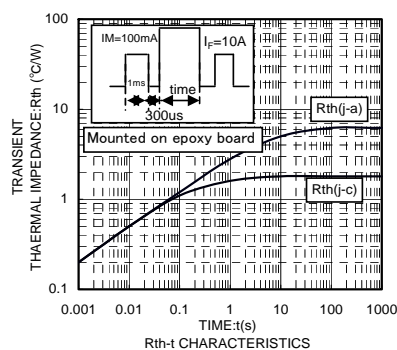
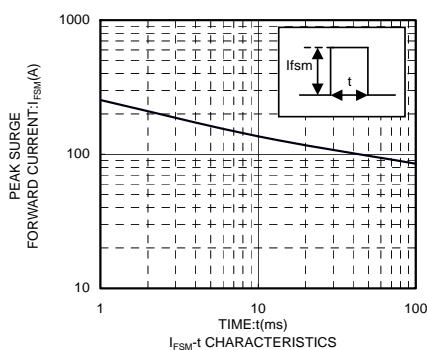
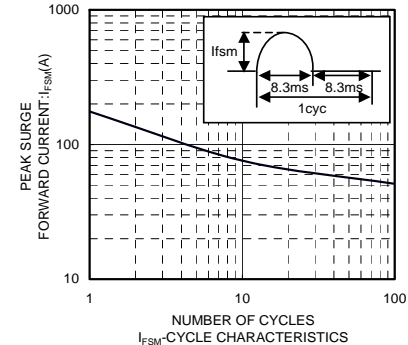
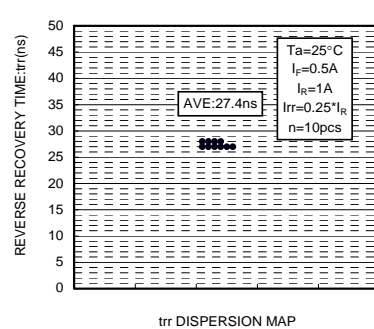
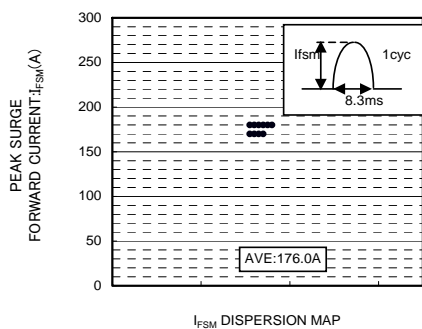
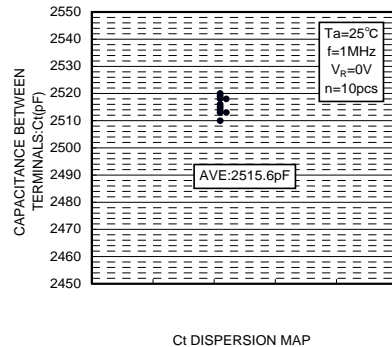
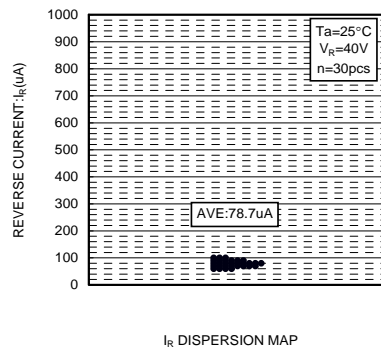
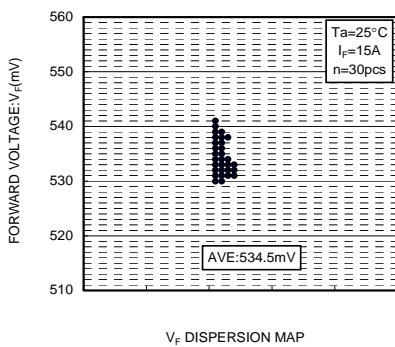
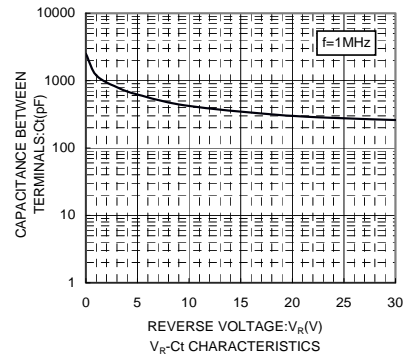
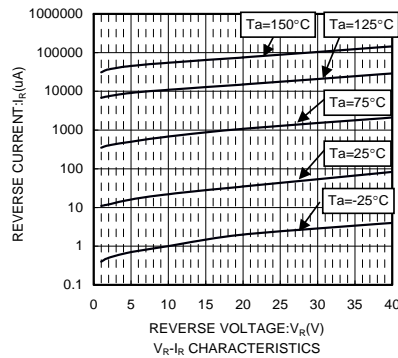
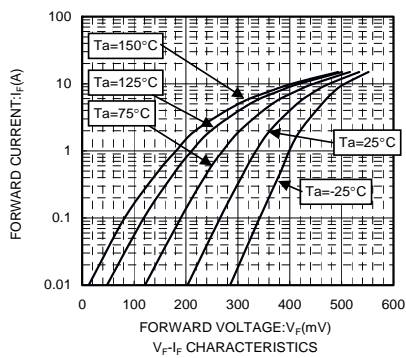
(*1) $T_c=105^{\circ}\text{Cmax}$ Per chip: $I_o/2$

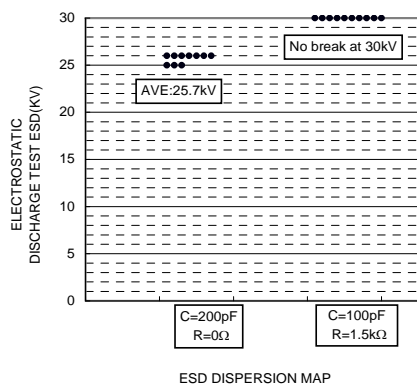
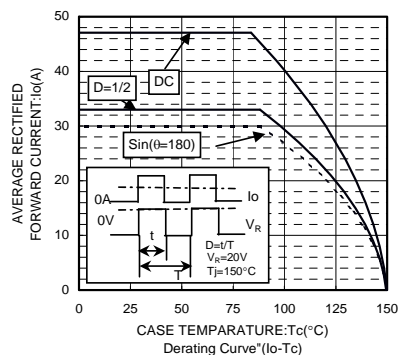
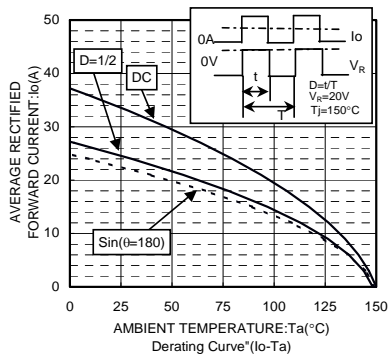
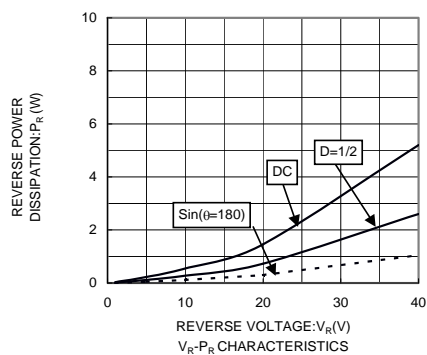
●Electrical characteristics (Ta=25°C)

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





Notes

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