

# Schottky Barrier Diode

## RB225T-40

●Applications

Switching power supply

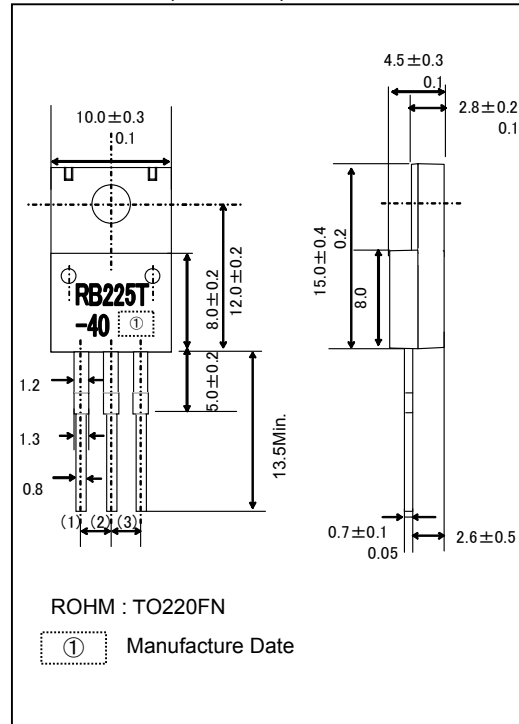
●Features

- 1)Cathode common type.(TO-220)
- 2)Low I<sub>R</sub>
- 3)High reliability

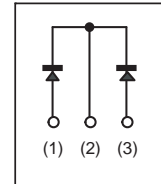
●Construction

Silicon epitaxial planer

●Dimensions(Unit : mm)



●Structure



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V <sub>RM</sub>	40	V
Reverse voltage (DC)	V <sub>R</sub>	40	V
Average rectified forward current(*1)	I <sub>o</sub>	30	A
Forward current surge peak (60Hz·1cyc)(*1)	I <sub>FSM</sub>	100	A
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-40 to +150	°C

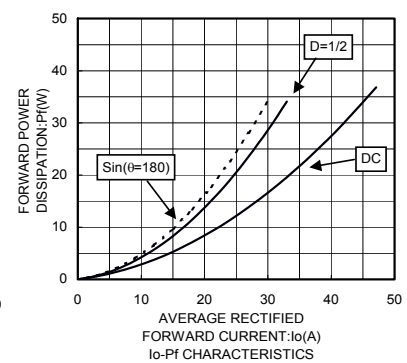
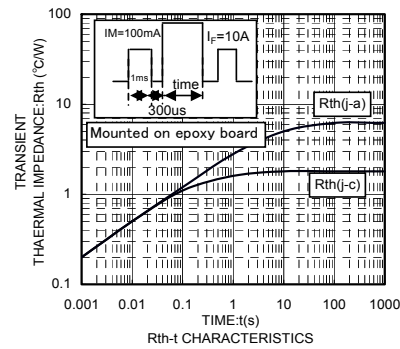
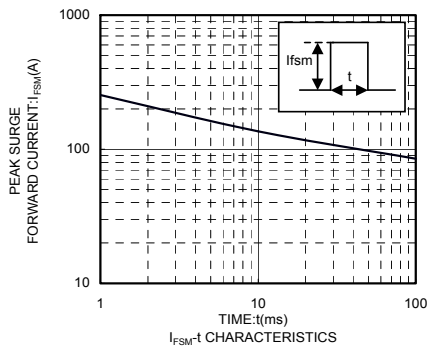
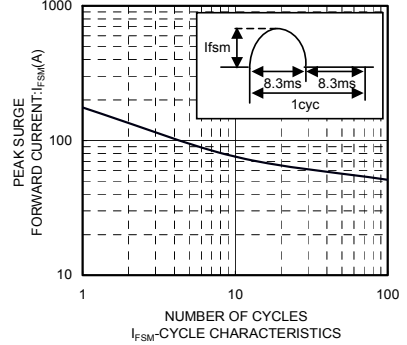
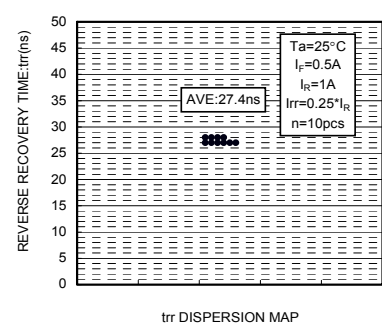
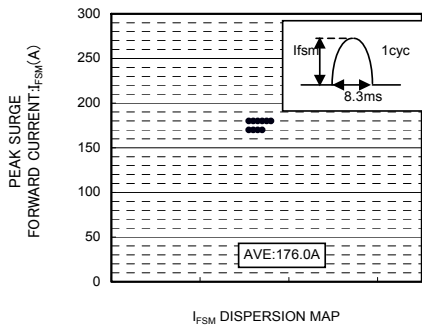
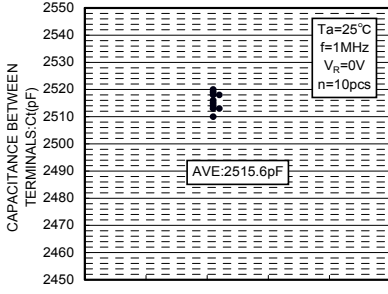
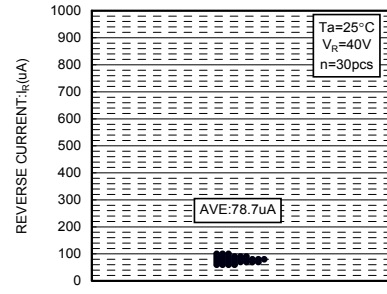
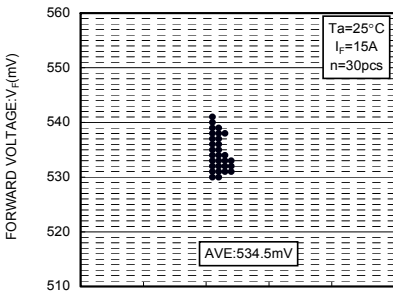
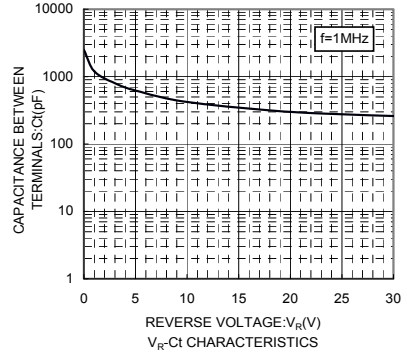
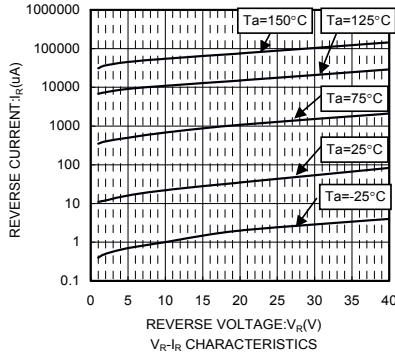
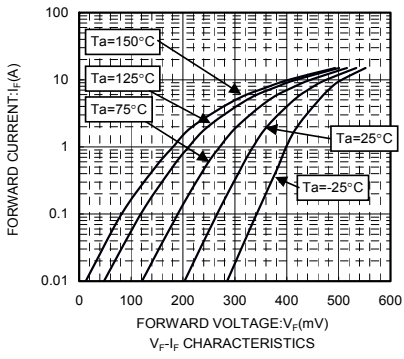
(\*1)T<sub>c</sub>=105°Cmax Per chip:I<sub>o</sub>/2

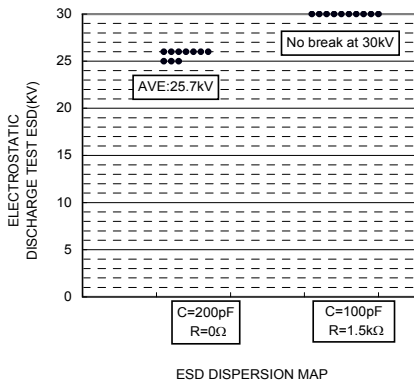
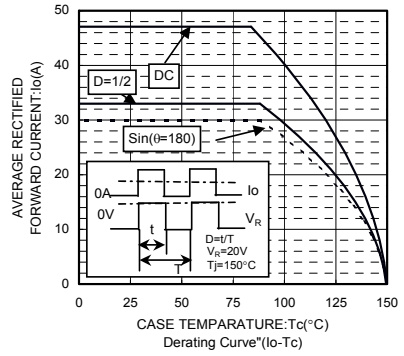
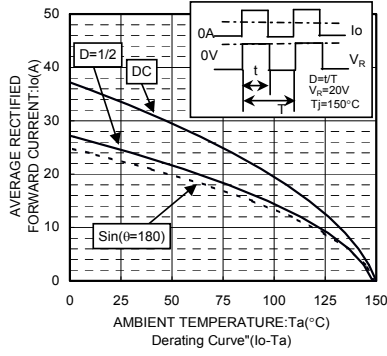
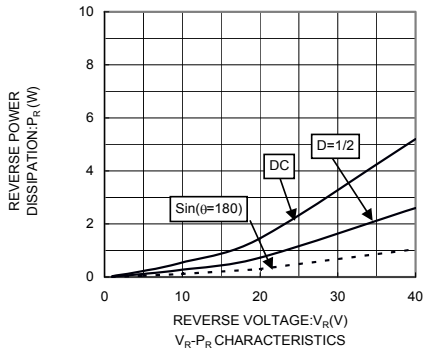
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.63	V	I <sub>F</sub> =15A
Reverse current	I <sub>R</sub>	-	-	500	μA	V <sub>R</sub> =40V
Thermal impedance	θ <sub>jc</sub>	-	-	(1.75)	°C/W	junction to case

( ) : tentative

●Electrical characteristic curves





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