

# Schottky barrier diode

## RB095T-40

●Applications

Switching power supply

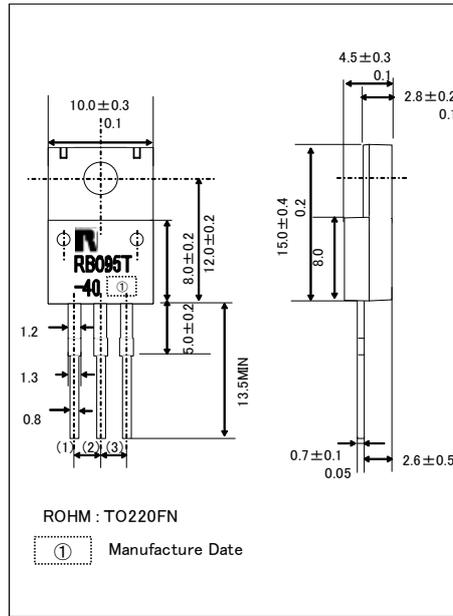
●Features

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

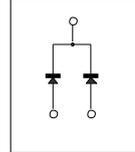
●Construction

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	$I_o$	6	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

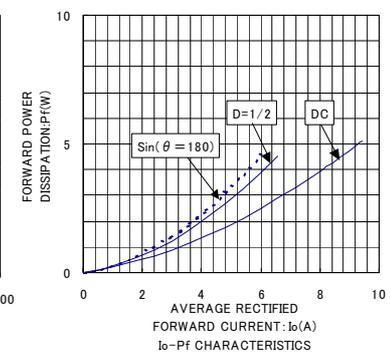
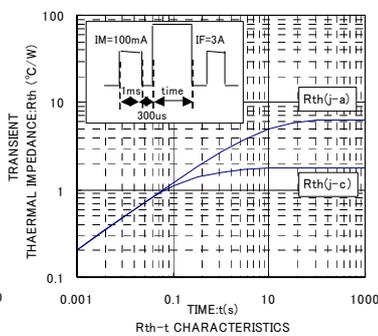
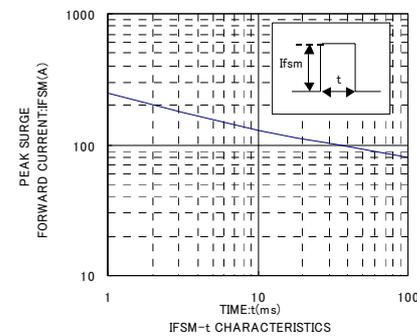
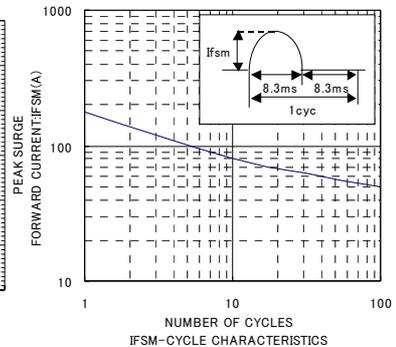
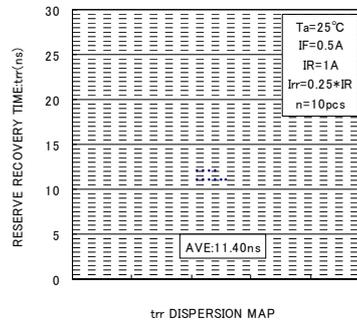
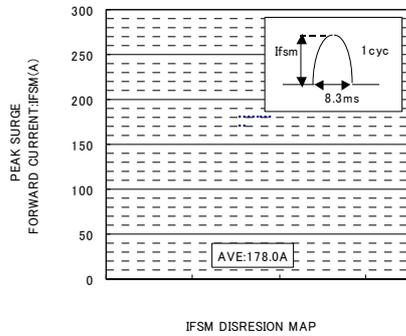
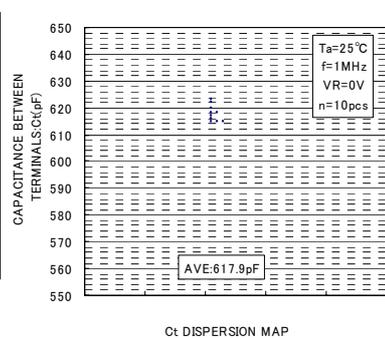
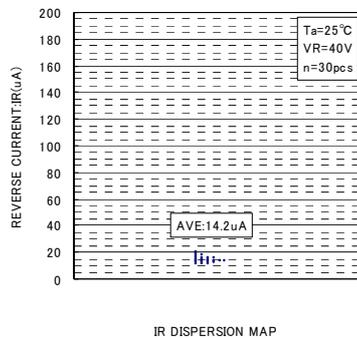
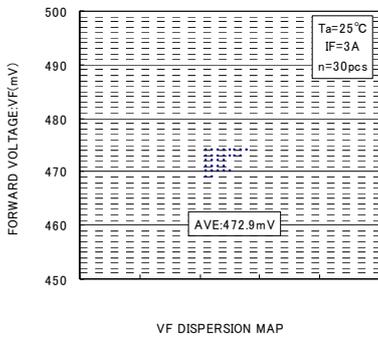
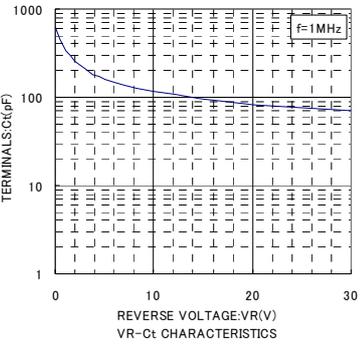
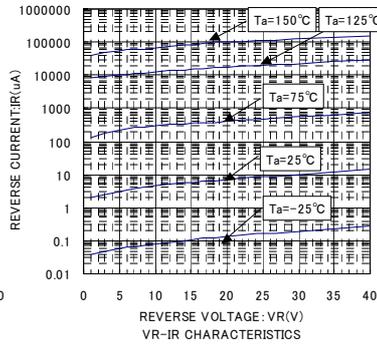
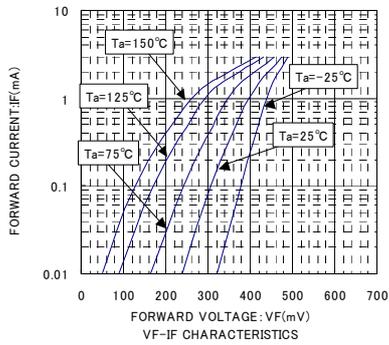
(\*1) $T_c=100^{\circ}C_{max}$  Per chip :  $I_o/2$

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.55	V	$I_F=3A$
Reverse current	$I_R$	-	-	10	mA	$V_R=40V$
Thermal impedance	$\theta_{jc}$	-	-	3.0	°C/W	junction to case

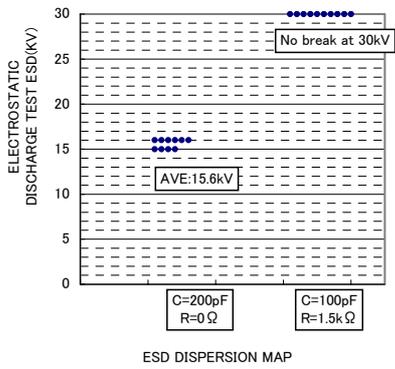
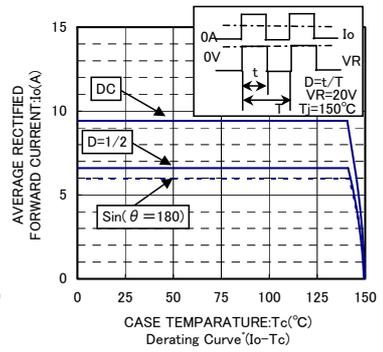
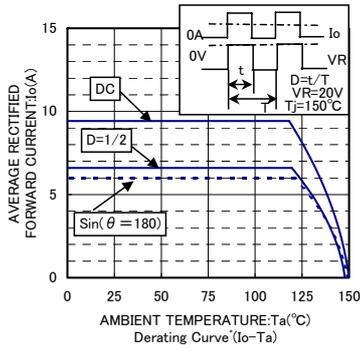
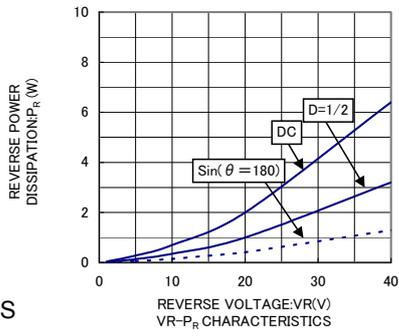
Diodes

●Electrical characteristic curves



Diodes

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