

# Schottky Barrier Diode

## RBQ10T65A

●Applications

General rectification

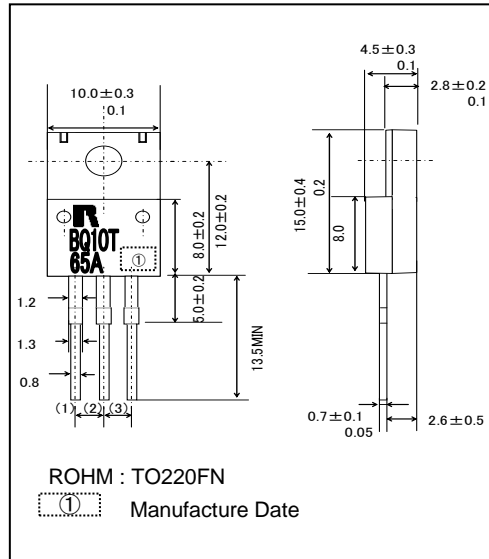
●Features

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

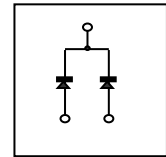
●Construction

Silicon epitaxial planer

●Dimensions (Unit : mm)



●Structure



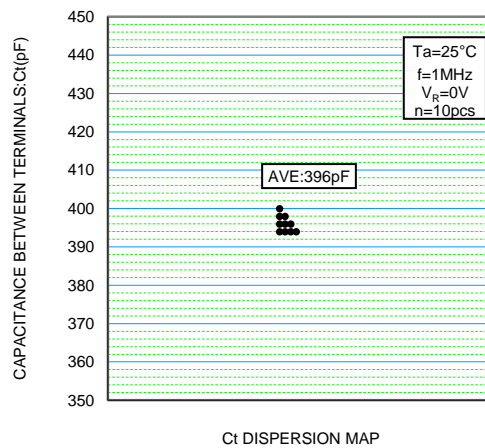
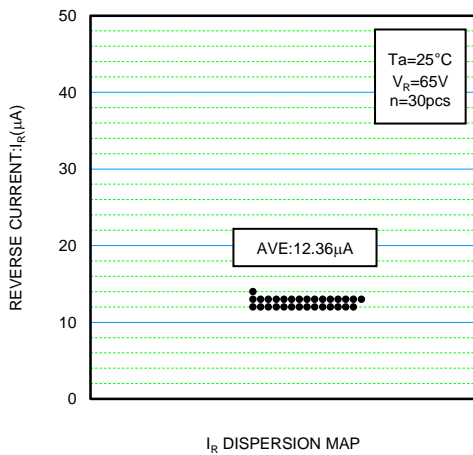
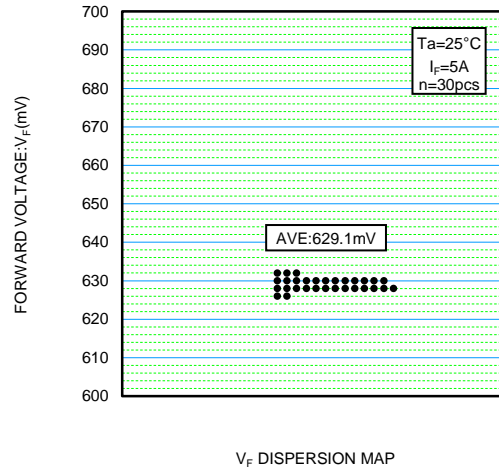
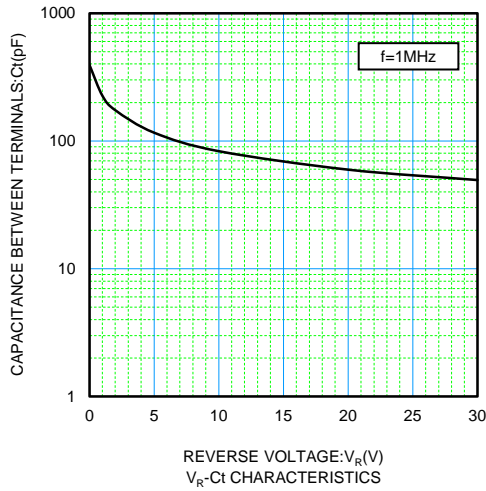
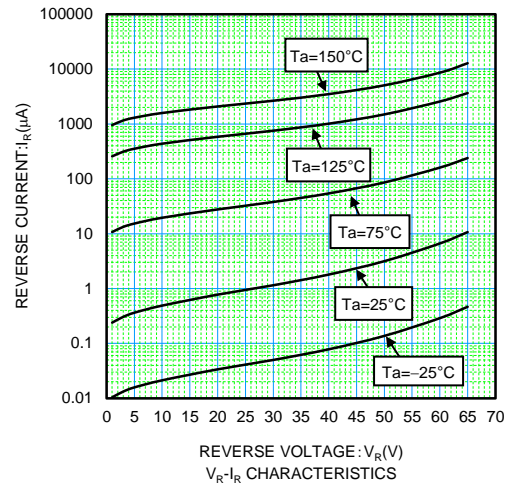
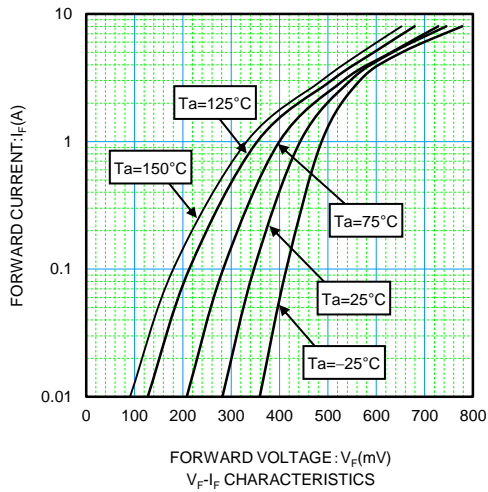
●Absolute maximum ratings (Tc=25°C)

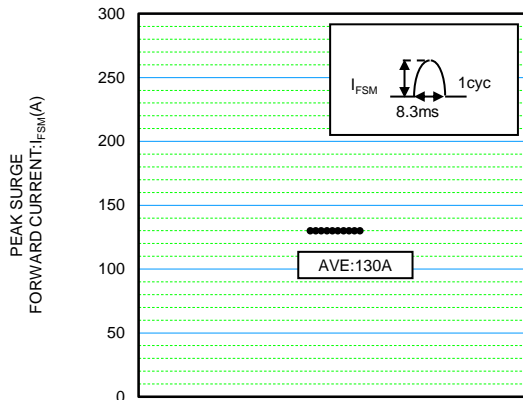
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	65	V
Reverse voltage (DC)	$V_R$	65	V
Average rectified forward current (*1)	$I_o$	10	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	50	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

(\*1) Rating of per diode :  $I_o/2$

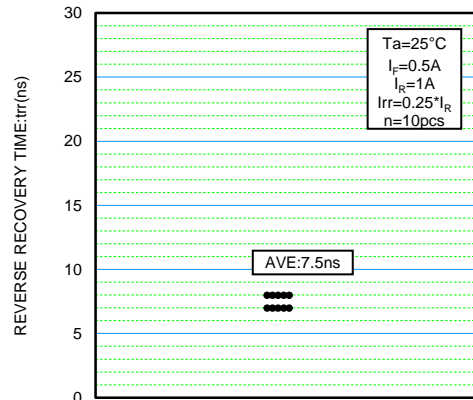
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.69	V	$I_F=5A$
Reverse current	$I_R$	-	-	150	μA	$V_R=65V$

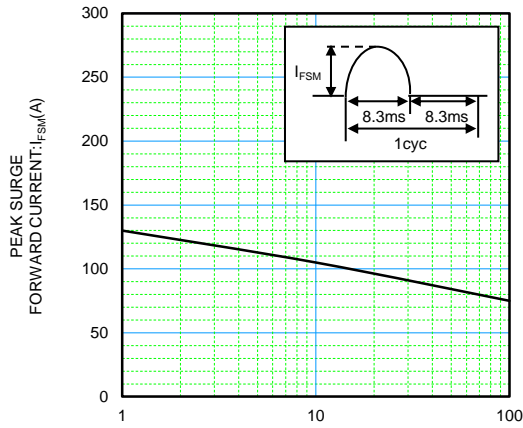




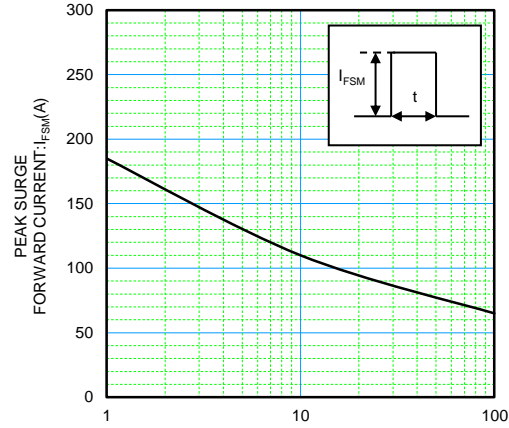
$I_{FSM}$  DISRESION MAP



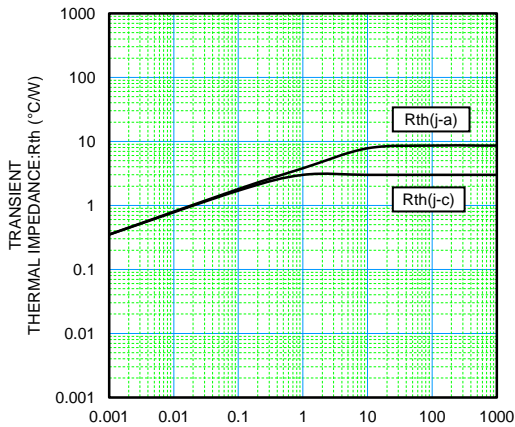
trr DISPERSION MAP



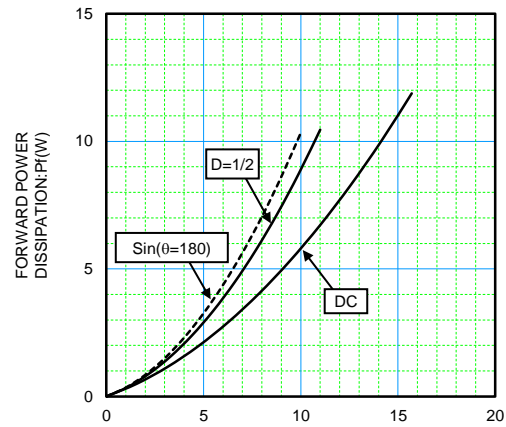
$I_{FSM}$  CYCLE CHARACTERISTICS



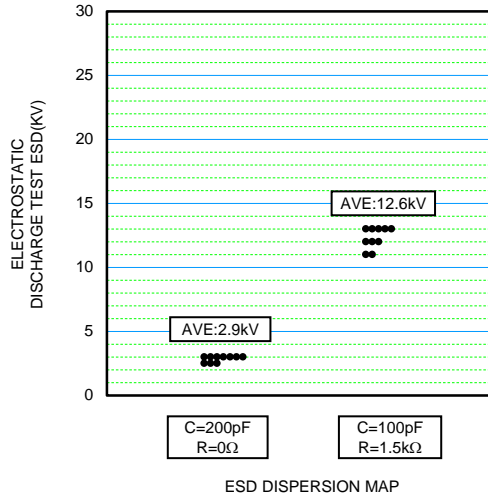
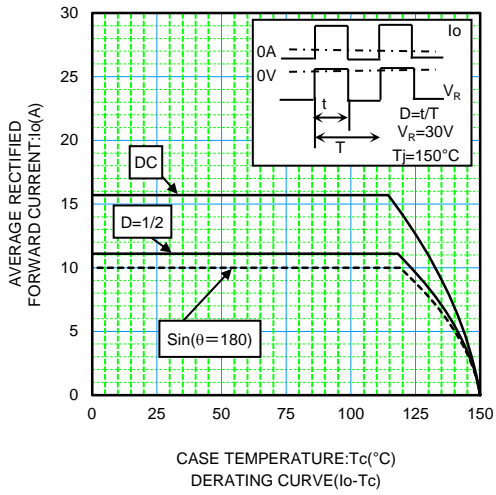
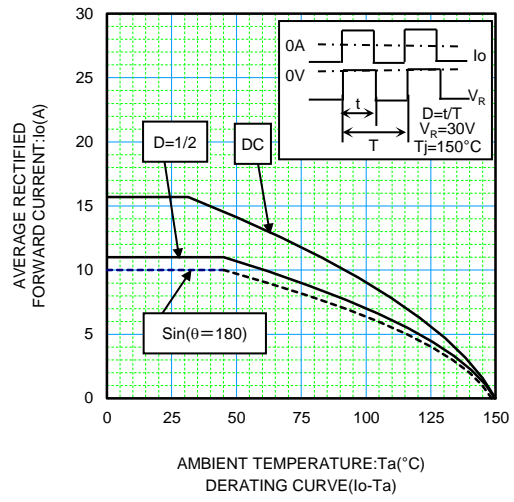
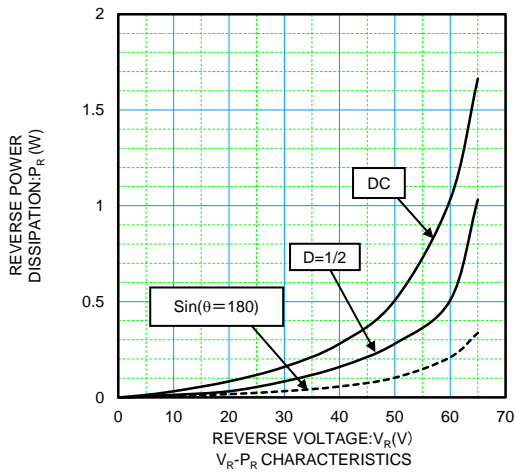
$I_{FSM}$ -t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



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