

Schottky Barrier Diode

RBQ20NS65A

●Applications

General rectification

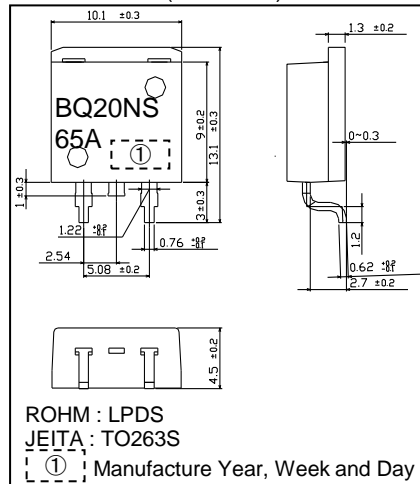
●Features

- 1) Cathode Common Dual type.(LPDS)
- 2) Low I_R .

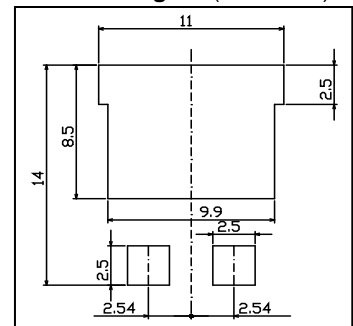
●Construction

Silicon epitaxial planer

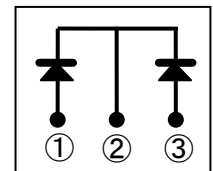
●Dimensions (Unit : mm)



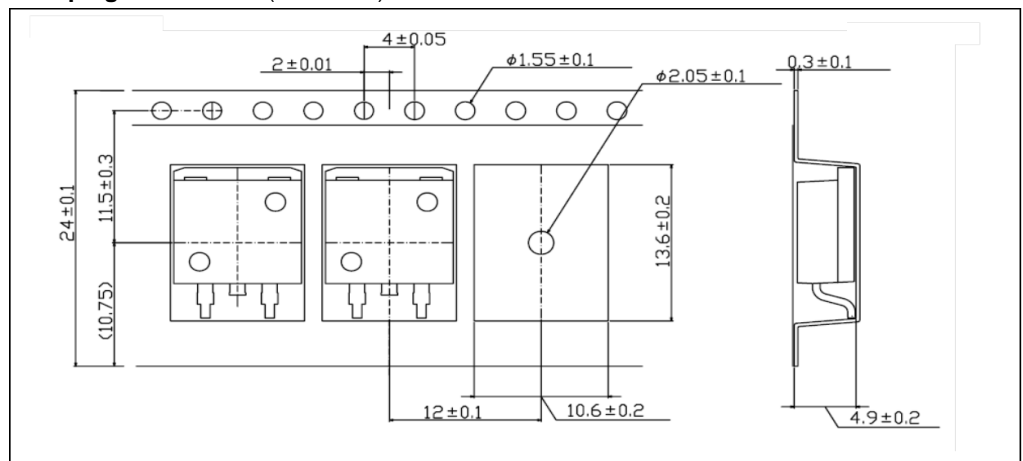
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Tc=25°C)

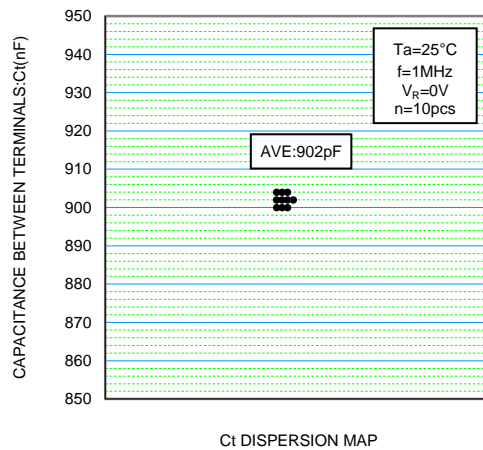
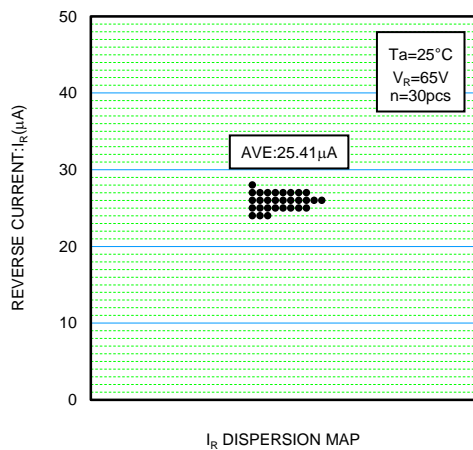
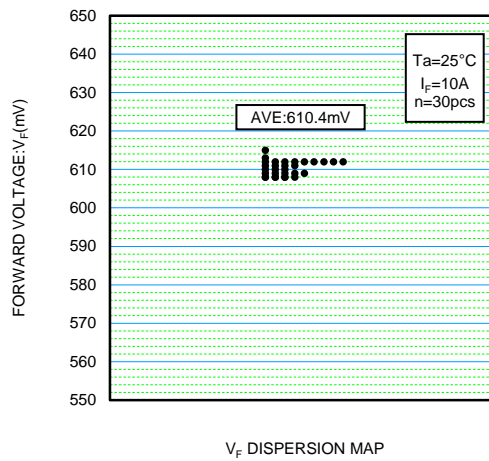
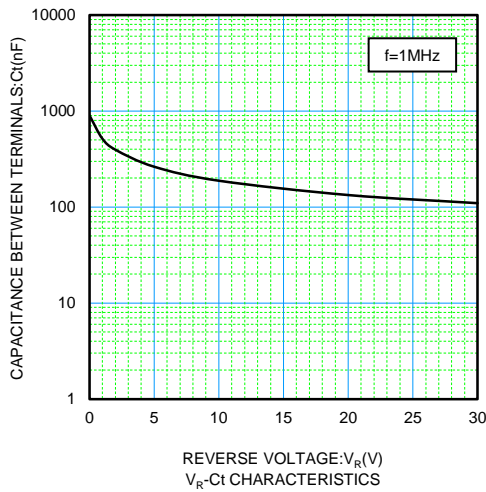
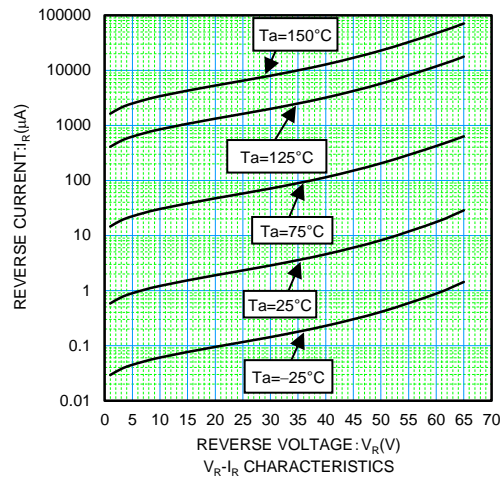
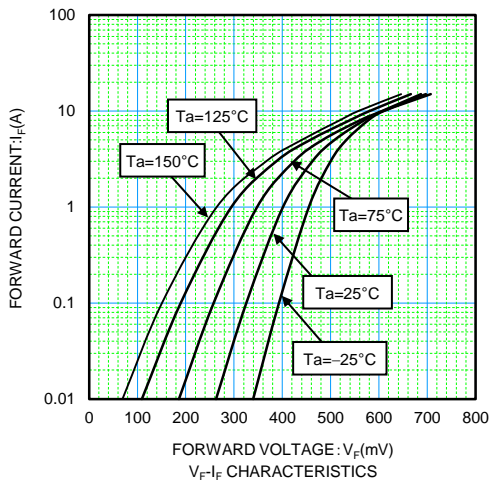
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	65	V
Reverse voltage (DC)	V_R	65	V
Average rectified forward current (*1)	I_o	20	A
Forward current surge peak (60Hz · 1cyc) (*2)	I_{FSM}	100	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

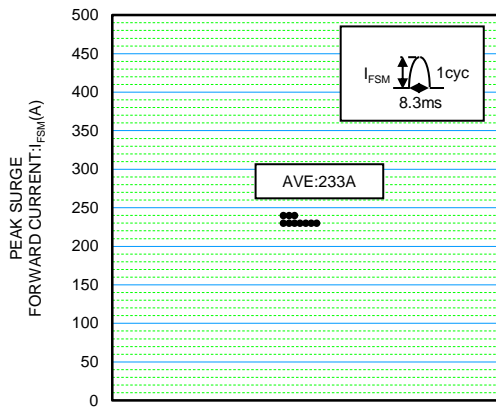
(*1) 60Hz half sin wave, 1/2 I_o per diode.

(*2) 60Hz half sin wave, one cycle, non-repetitive at $T_j=25^\circ\text{C}$.

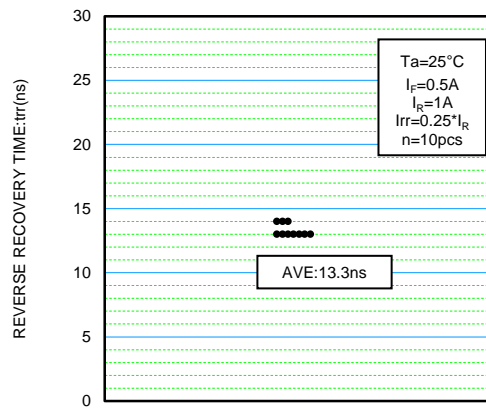
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.69	V	$I_F=10\text{A}$
Reverse current	I_R	-	-	0.3	mA	$V_R=65\text{V}$

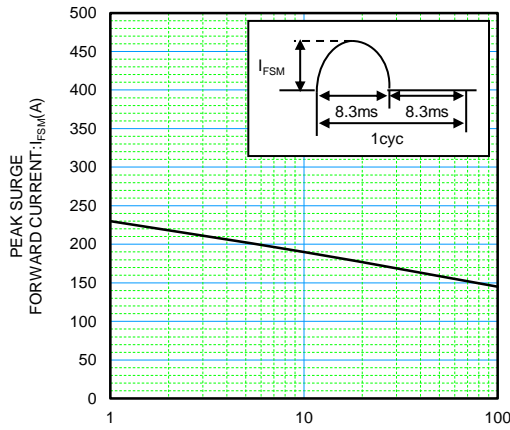




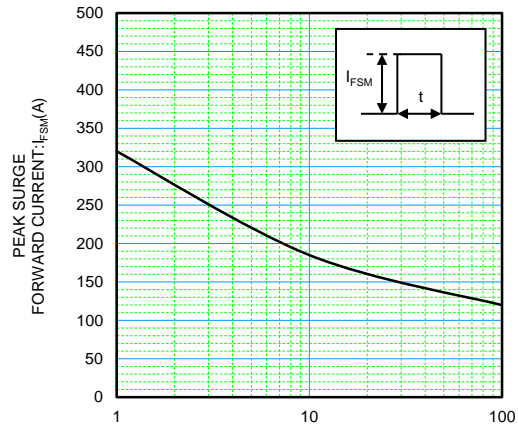
I_{FSM} DISRESION MAP



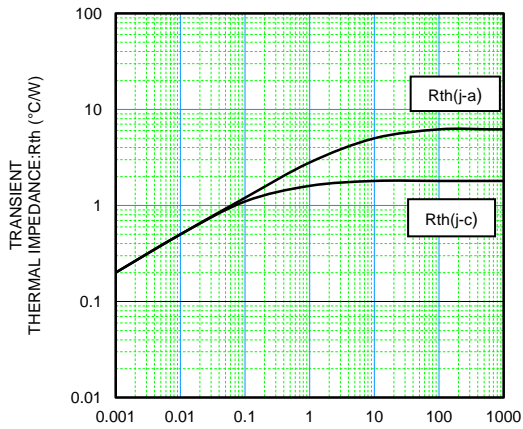
trr DISPERSION MAP



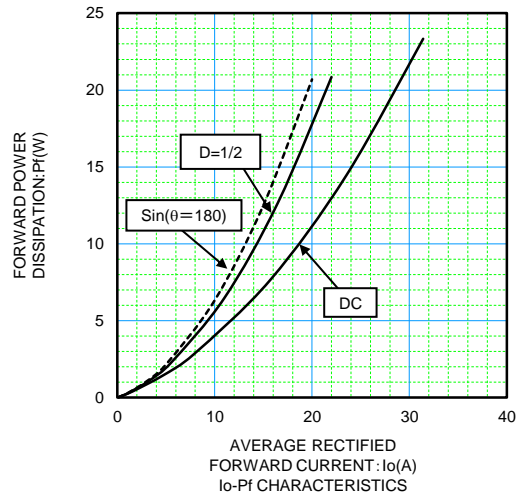
I_{FSM} -CYCLE CHARACTERISTICS



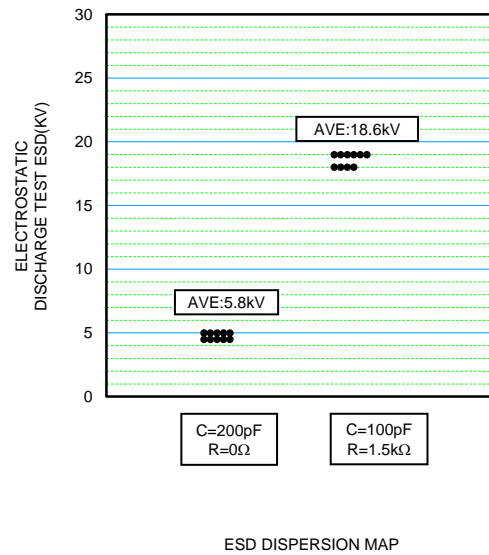
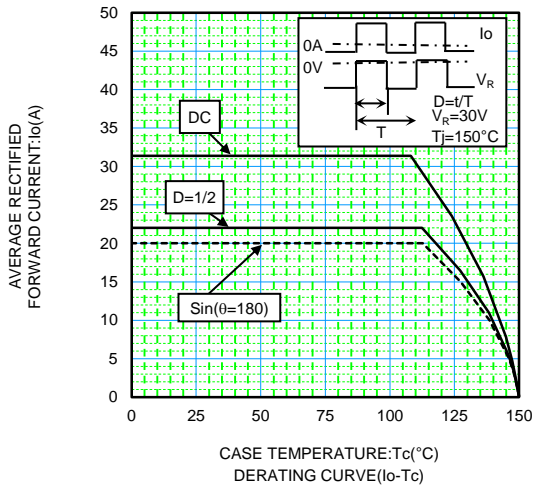
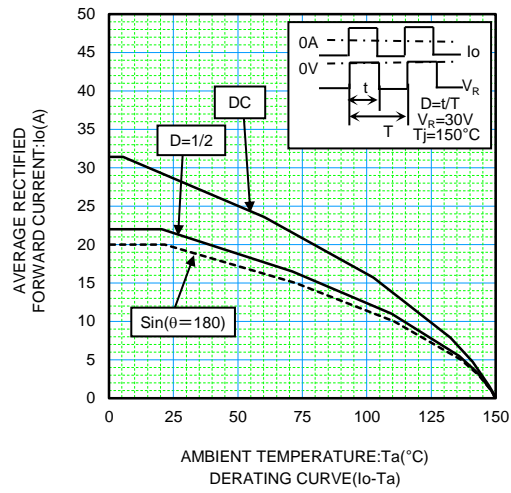
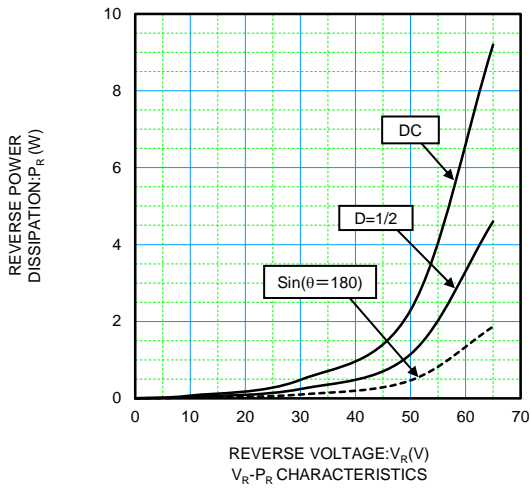
I_{FSM} -t CHARACTERISTICS



Rth-t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT: I_o (A) I_o -Pf CHARACTERISTICS



Notes

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