

Schottky Barrier Diode

RB225NS-40

●Applications

General rectification

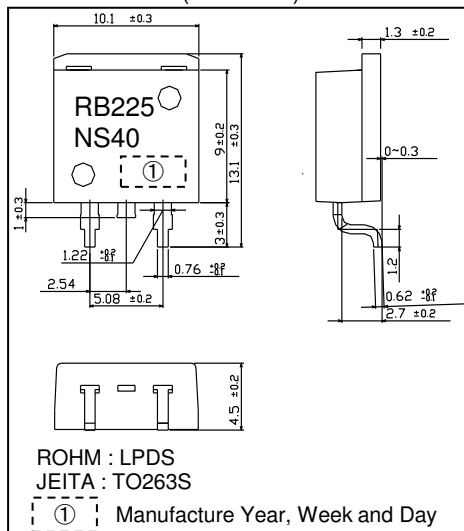
●Features

- 1) Cathode common dual type.(LPDS)
- 2) Low I_R

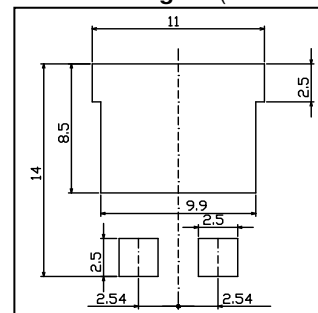
●Construction

Silicon epitaxial planer

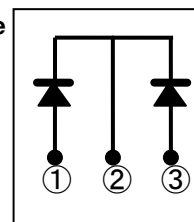
●Dimensions (Unit : mm)



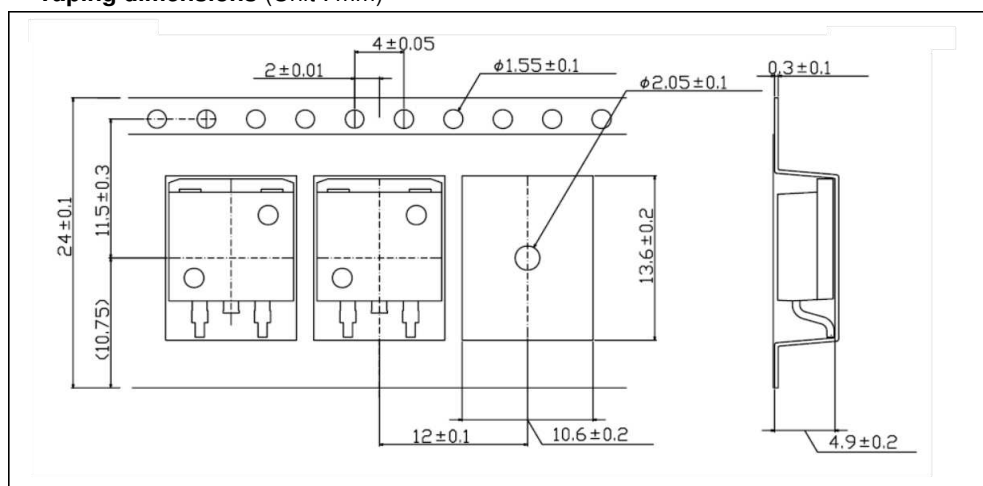
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



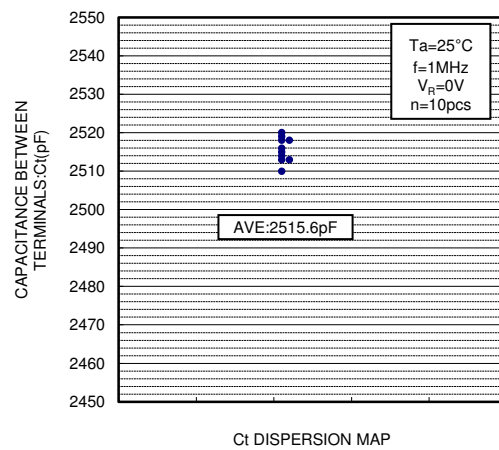
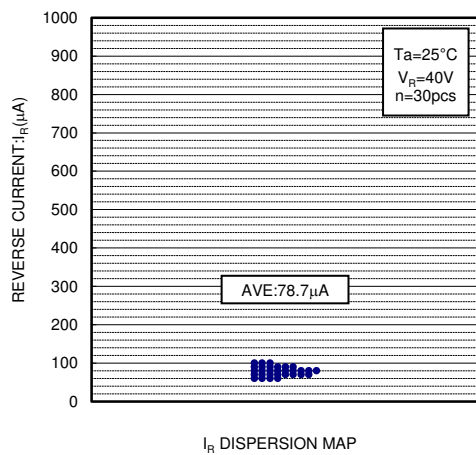
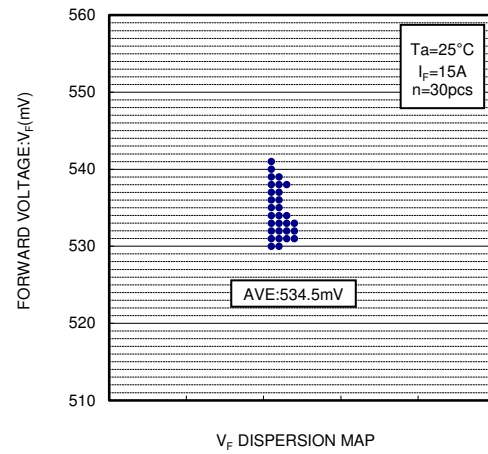
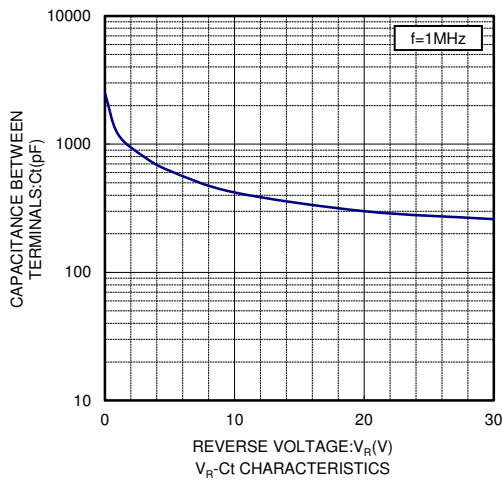
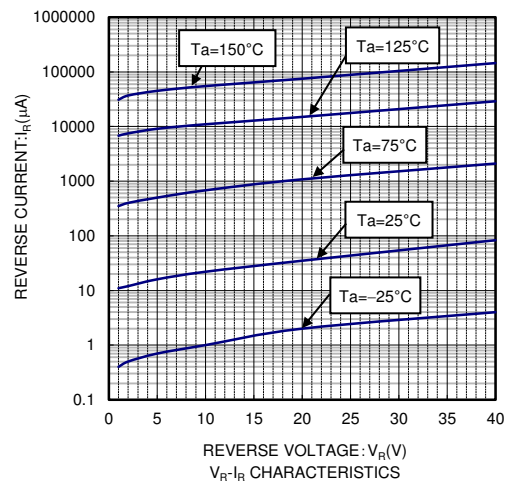
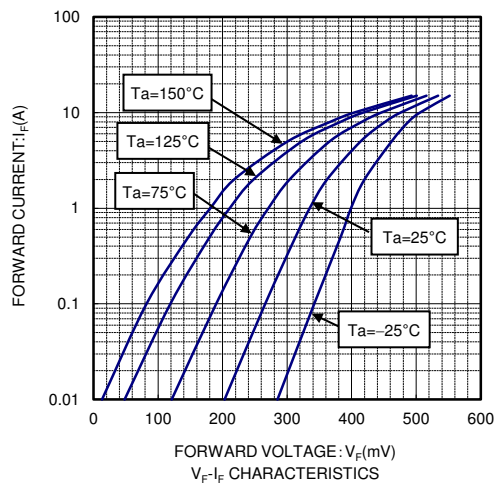
●Absolute maximum ratings (Tc=25°C)

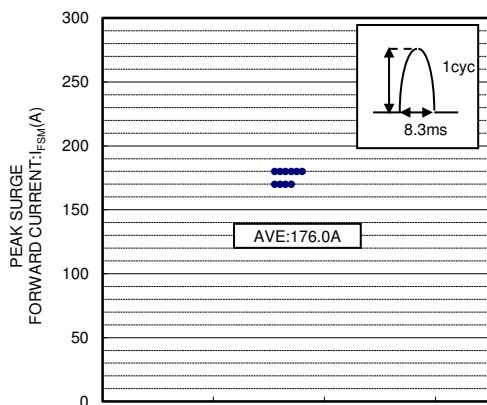
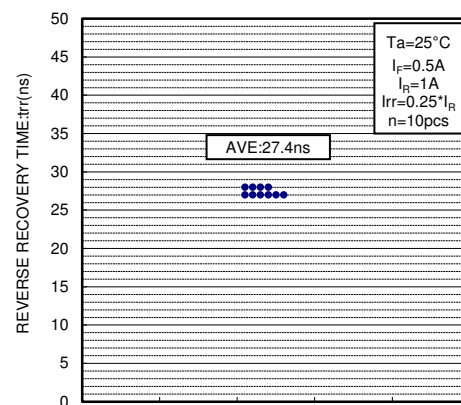
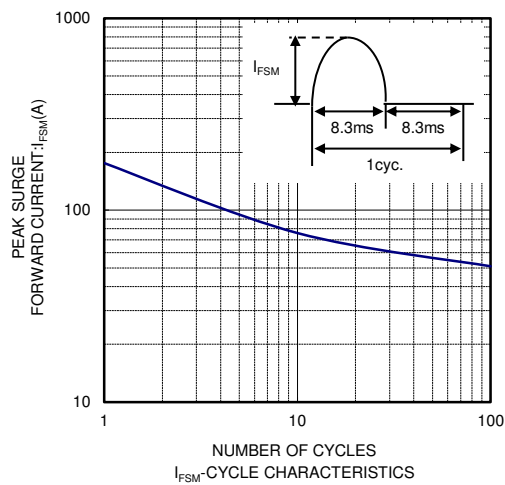
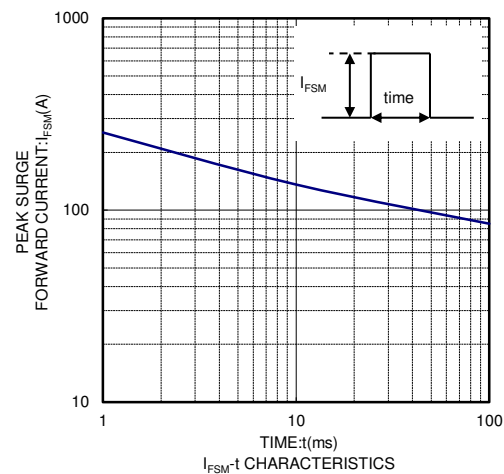
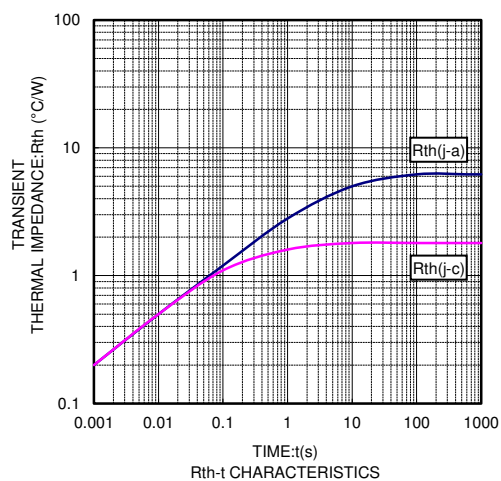
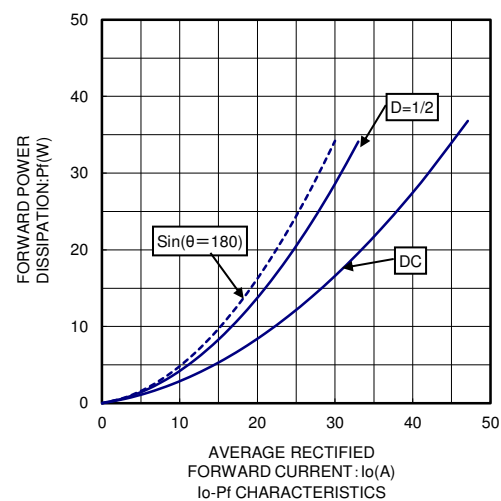
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	30	A
Forward current surge peak (60Hz · 1cyc) (*1)	I_{FSM}	100	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

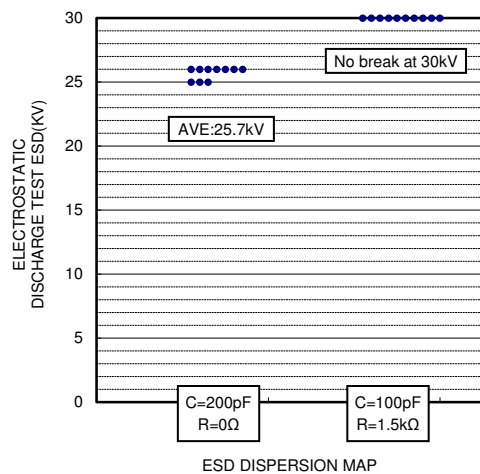
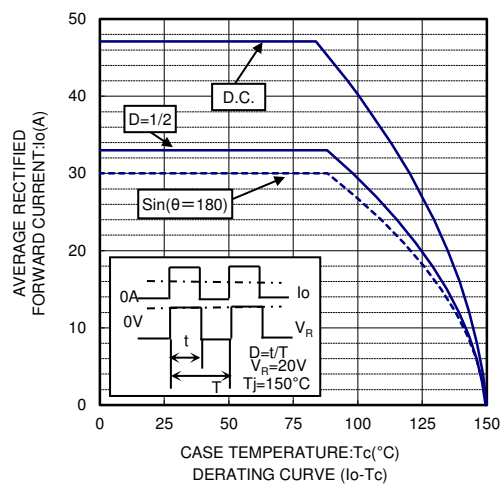
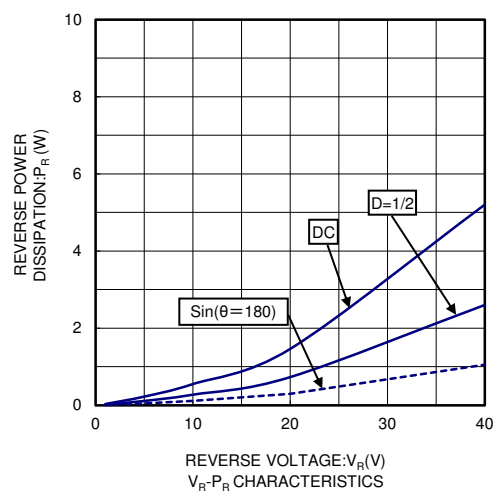
 (*1) 60Hz half sin wave, resistive load at $T_c=70^\circ\text{C}$. 1/2 I_o per diode

●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.53	0.63	V	$I_F=15\text{A}$
Reverse current	I_R	-	0.08	0.5	mA	$V_R=40\text{V}$
Thermal resistance	$R_{th} \text{ (J-C)}$	-	-	2.00	°C/W	junction to case



 I_{FSM} DISPERSION MAP trr DISPERSION MAP I_{FSM} CYCLE CHARACTERISTICS I_{FSM} - t CHARACTERISTICS R_{th} - t CHARACTERISTICS I_o - P_f CHARACTERISTICS



Notes

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