# Schottky Barrier Diode

**RB238NS150 Data Sheet** 

# Application

Switching power supply

#### Features

- 1) Cathode common type.
- 2) Super Low I<sub>R</sub>
- 3) High reliability
- 4) AEC-Q101 qualified (Limited to FH type)

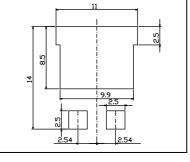
#### Construction

Silicon epitaxial planar

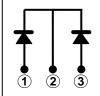
# 1.3 ±0.2 2 RB238 C NS150

● **Dimensions** (Unit: mm)

●Land size figure (Unit : mm)



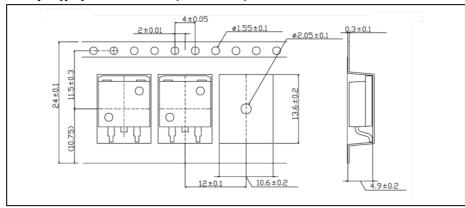
Structure



# Taping specifications (Unit : mm)

Manufacture Year, Week and Day

ROHM: LPDS JEITA: TO263S



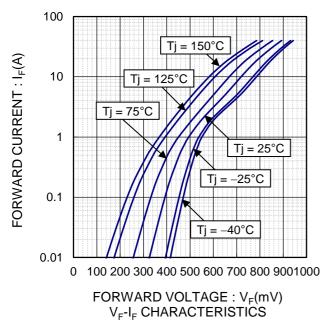
# ● Absolute maximum ratings (Tc= 25°C)

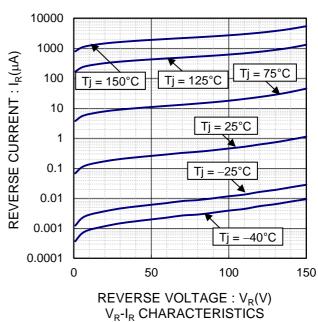
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	150	V
Reverse voltage (DC)	$V_R$	150	V
Average rectified forward current (*1)	lo	40	А
Forward current surge peak (60Hz-1cyc)(*1)	I <sub>FSM</sub>	100	А
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

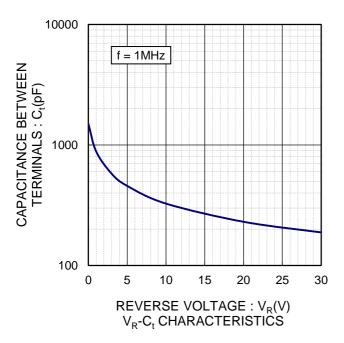
(\*1) Rating of per diode: Io/2

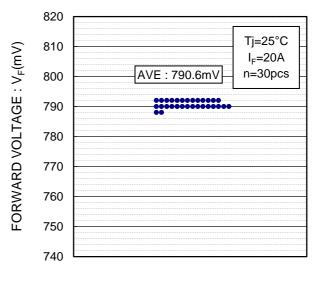
# ●Electrical characteristics (Tj = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	0.79	0.92	V	I <sub>F</sub> =20A
Reverse current	I <sub>R</sub>	-	1.0	30	μΑ	V <sub>R</sub> =150V

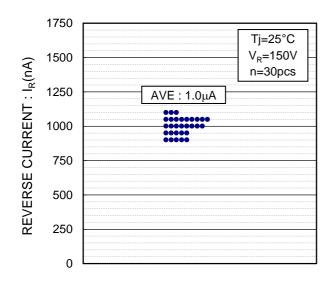


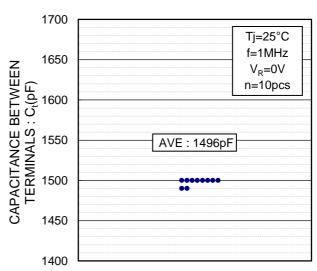






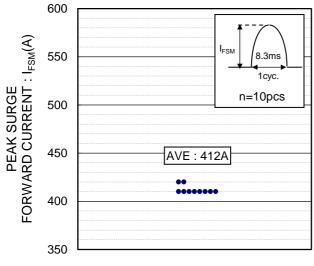
V<sub>F</sub> DISPERSION MAP

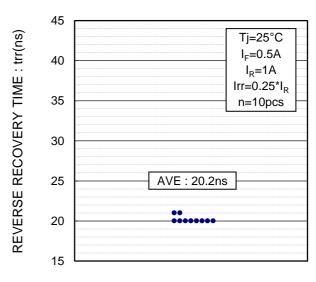




I<sub>R</sub> DISPERSION MAP

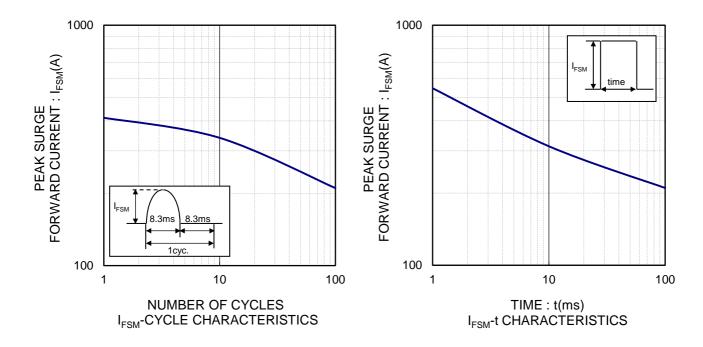
Ct DISPERSION MAP

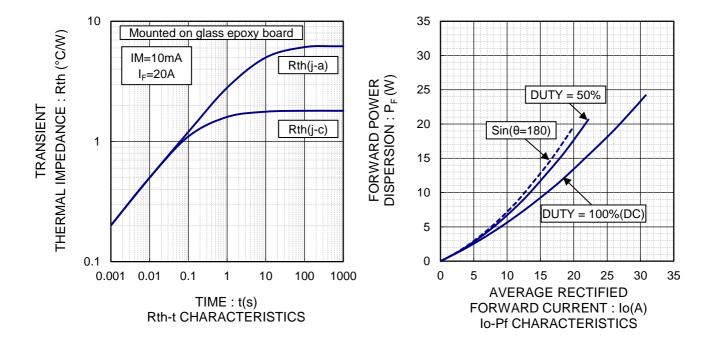


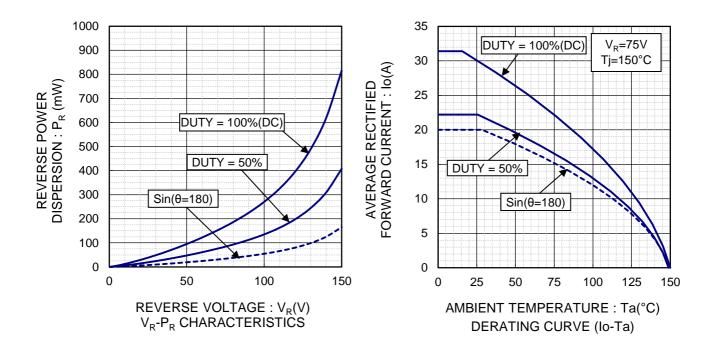


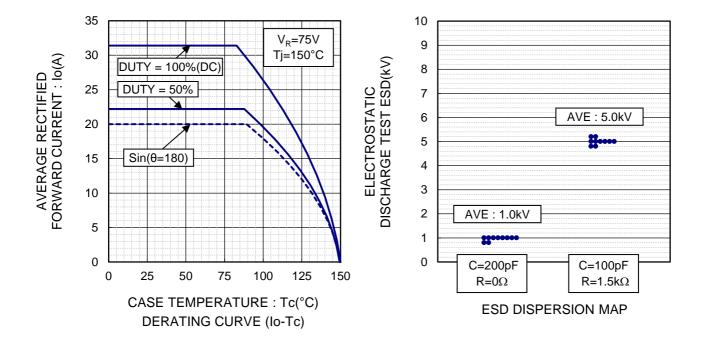
I<sub>FSM</sub> DISPERSION MAP

trr DISPERSION MAP









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