

# Schottky Barrier Diode

**RB088B150**

● **Applications**

Switching power supply

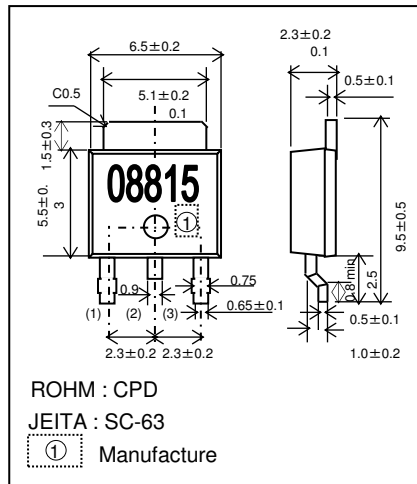
● **Features**

- 1) Cathode common dual type
- 2) Low IR
- 3) High reliability
- 4) AEC-Q101 qualified

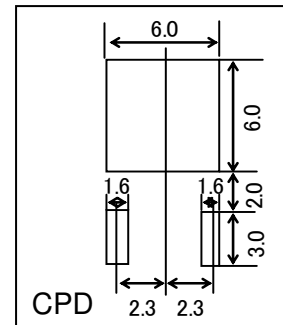
● **Construction**

Silicon epitaxial

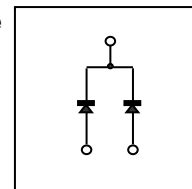
● **External Dimensions**(Unit : mm)



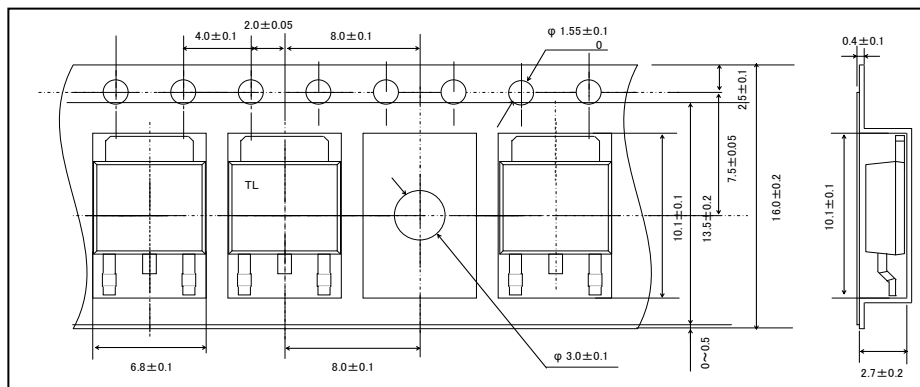
● **Land Size Figure**(Unit : mm)



● **Structure**



● **Taping Dimensions**(Unit : mm)



● **Absolute Maximum Ratings**(Ta=25°C)

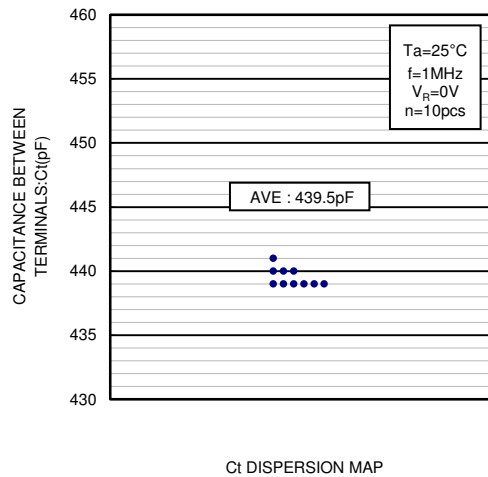
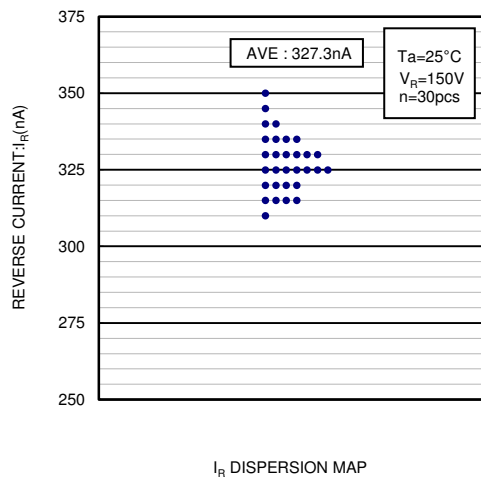
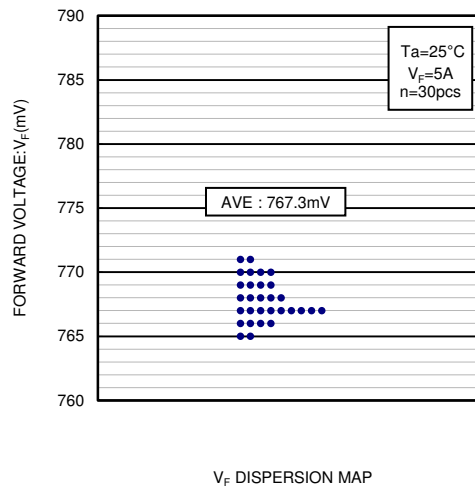
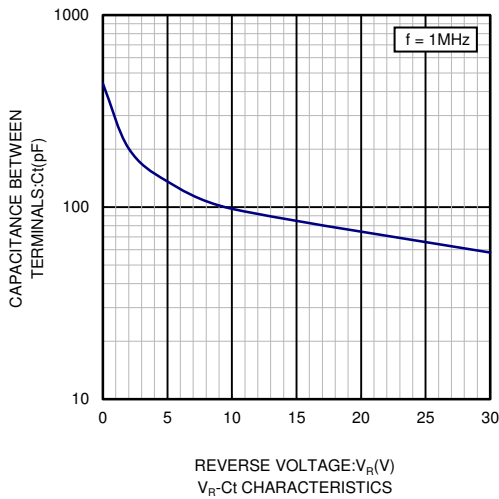
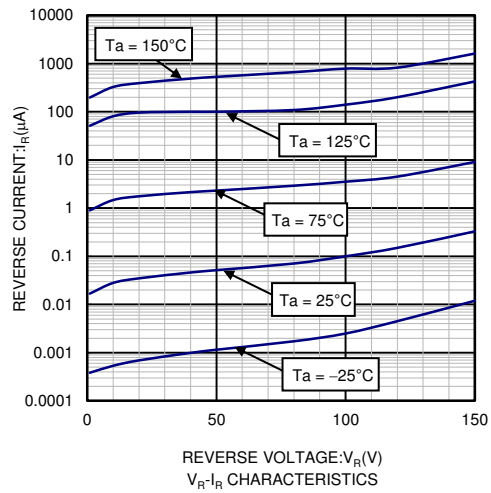
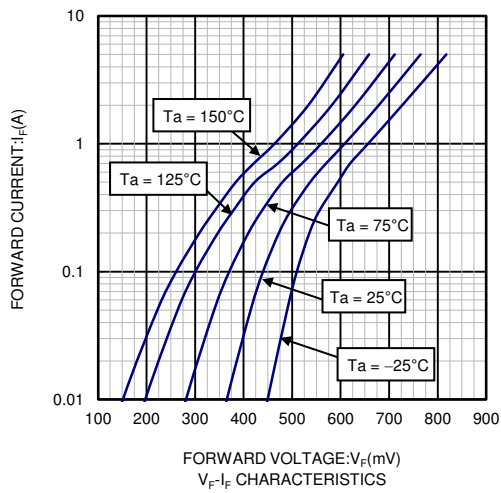
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	150	V
Reverse voltage (DC)	$V_R$	150	V
Average rectified forward current (*1)	$I_o$	10	A
Forward current surge peak (60Hz·1cyc)(*2)	$I_{FSM}$	50	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

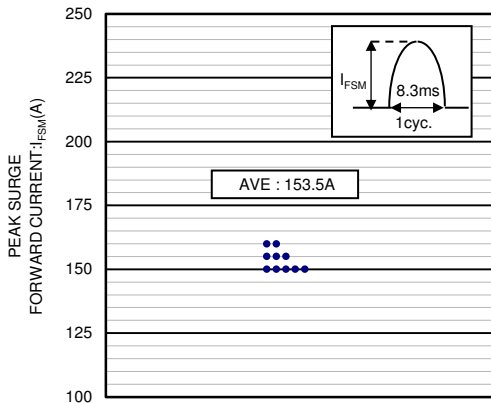
(\*1) 1/2  $I_o$  per Diode. Mounting on epoxi board. 180°Half sine wave

(\*2) Per Diode.

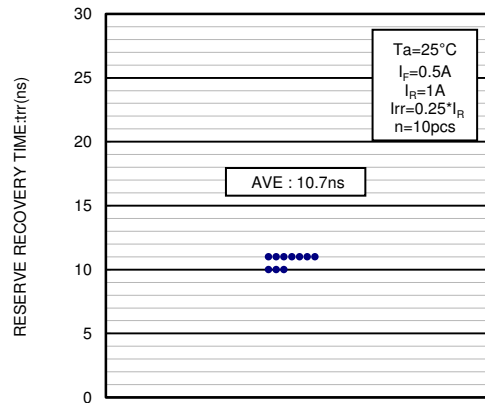
● **Electrical Characteristics**(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.78	0.88	V	$I_F=5.0A$
Reverse current	$I_R$	-	-	15	μA	$V_R=150V$

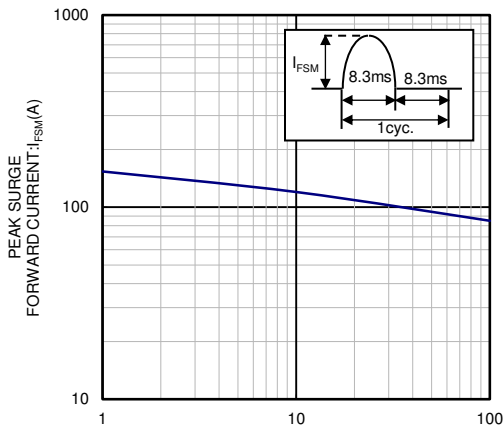




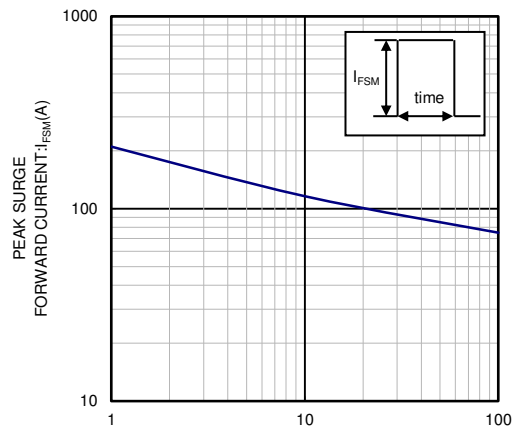
$I_{FSM}$  DISRESION MAP



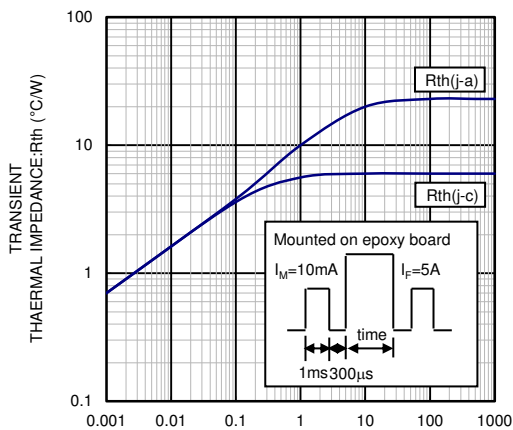
$t_{rr}$  DISPERSION MAP



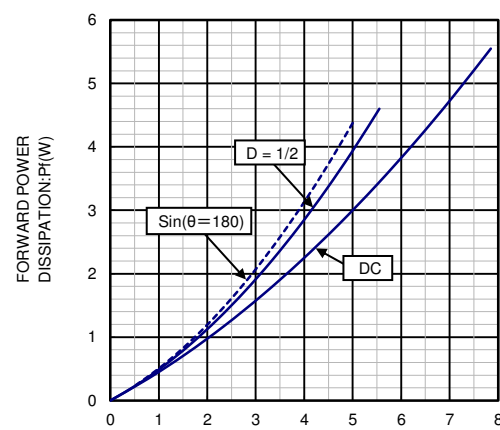
$I_{FSM}$ -CYCLE CHARACTERISTICS



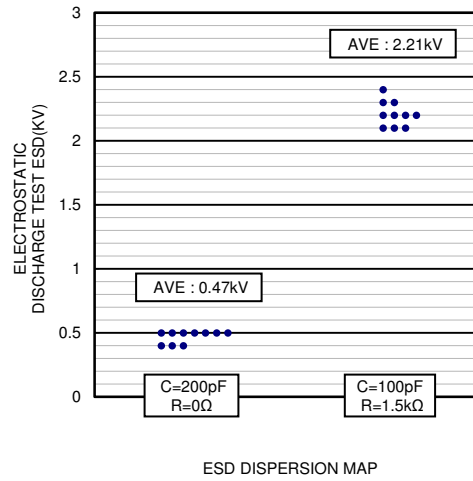
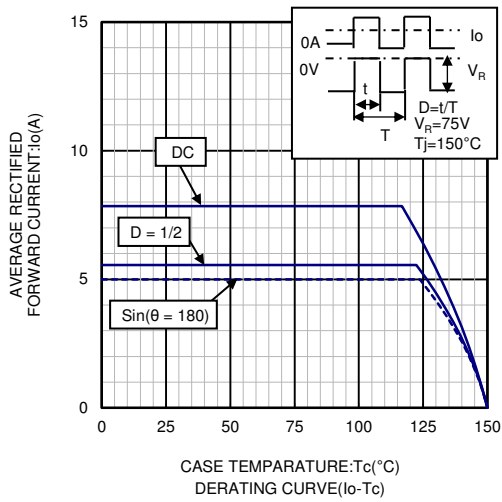
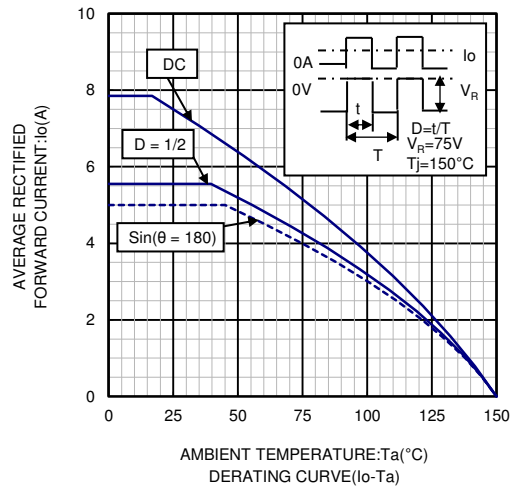
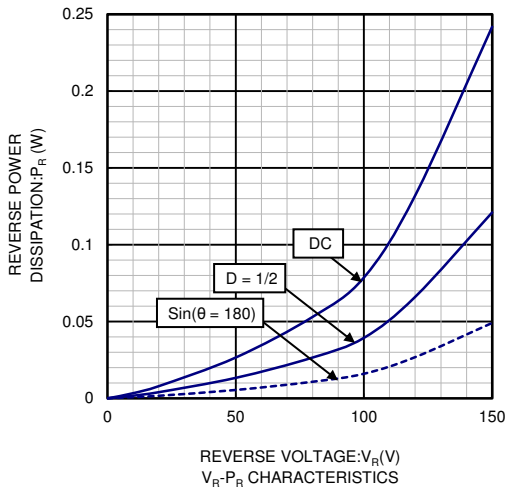
$I_{FSM}$ - $t$  CHARACTERISTICS



$R_{th}$ - $t$  CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT:  $I_o$ (A)  
 $I_o$ - $P_f$  CHARACTERISTICS



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