

Schottky Barrier Diode

RB088T150

●Applications

Switching power supply

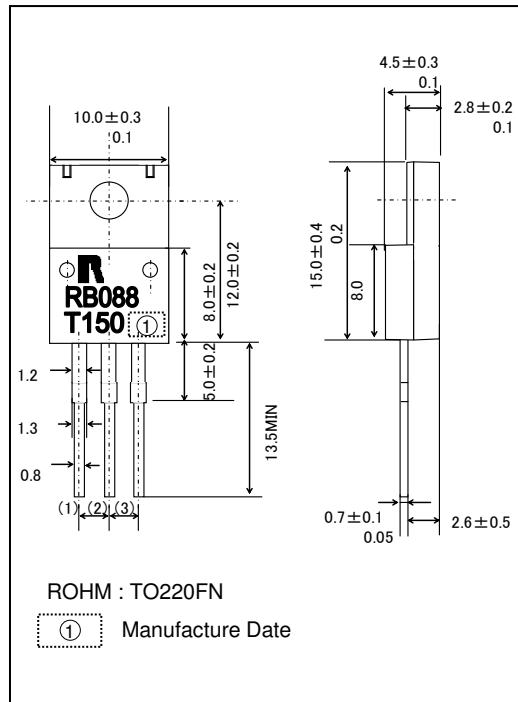
●Features

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

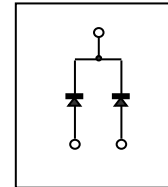
●Construction

Silicon epitaxial

●External Dimensions(Unit : mm)



●Structure



●Absolute Maximum Ratings(Ta=25°C)

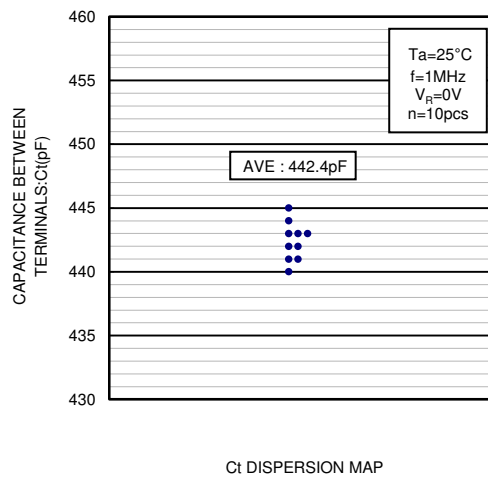
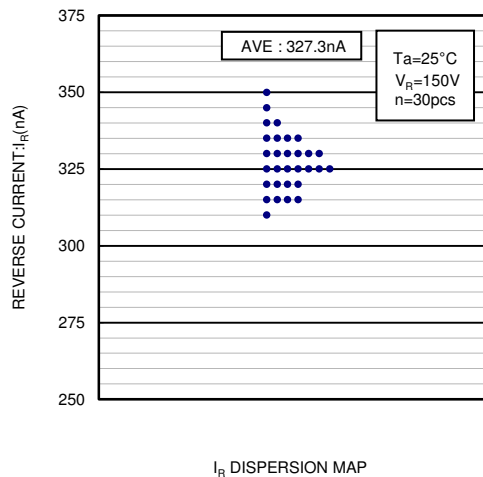
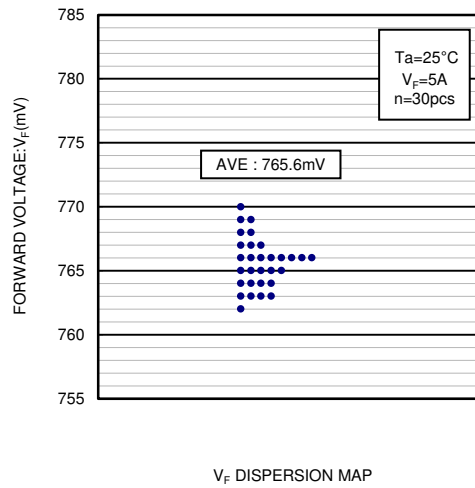
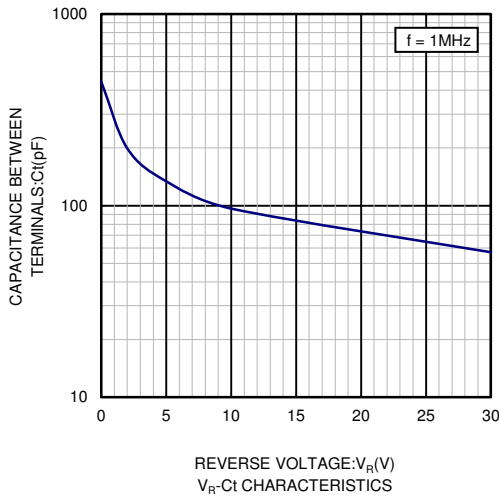
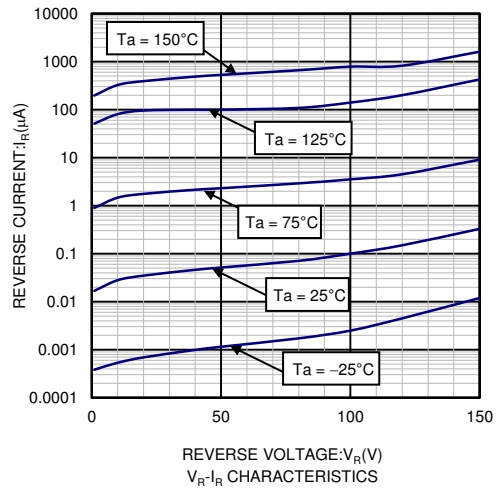
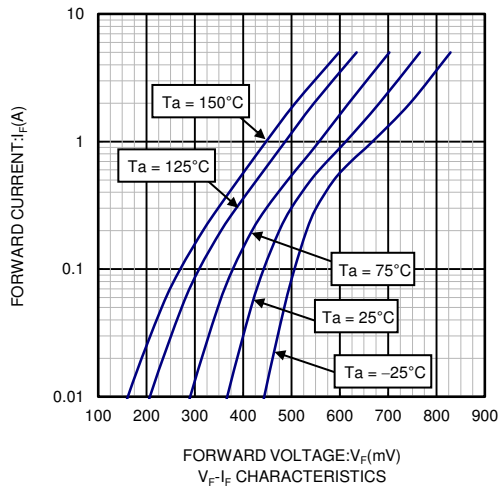
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	150	V
Reverse voltage (DC)	V_R	150	V
Average rectified forward current (*1)	I_o	10	A
Forward current surge peak (60Hz·1cyc)(*2)	I_{FSM}	50	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

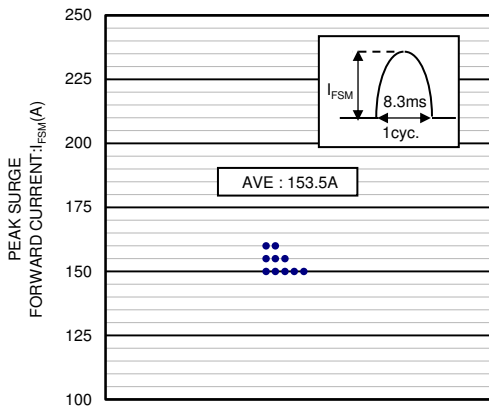
(*1) 1/2 I_o per Diode. Mounting on epoxy board. 180°Half sine wave

(*2) Per Diode.

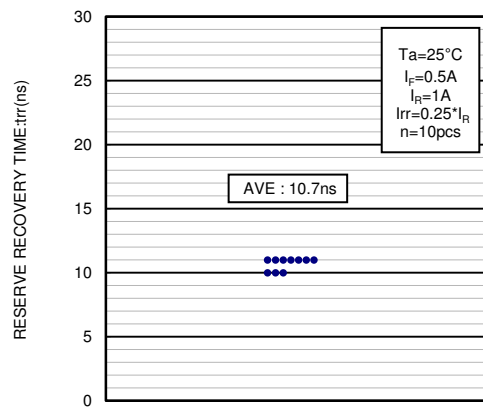
●Electrical Characteristics(Ta=25°C)

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	$V_R=150V$
Thermal resistance	$R_{th(j-c)}$	-	-	2	°C/W	junction to case

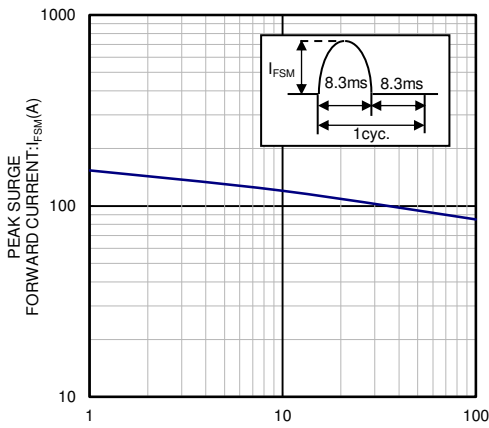




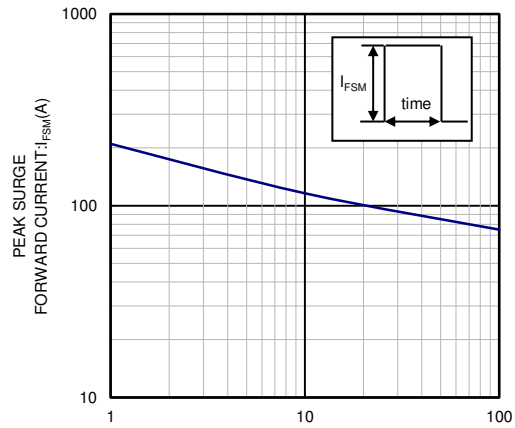
I_{FSM} DISRESION MAP



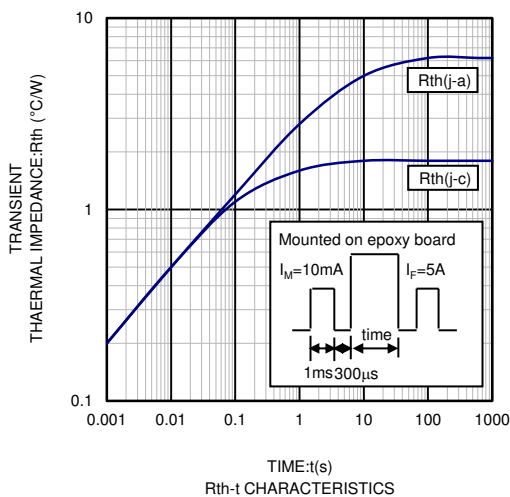
t_{rr} DISPERSION MAP



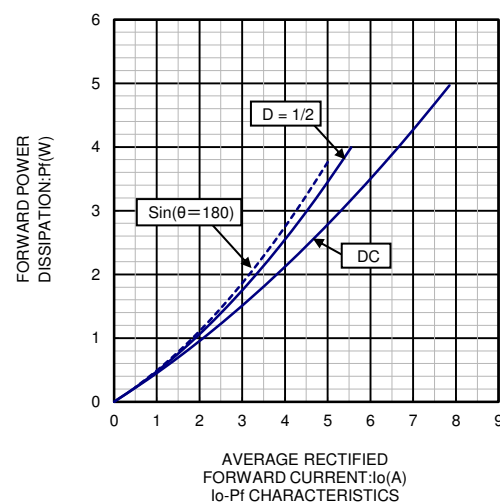
I_{FSM} -CYCLE CHARACTERISTICS



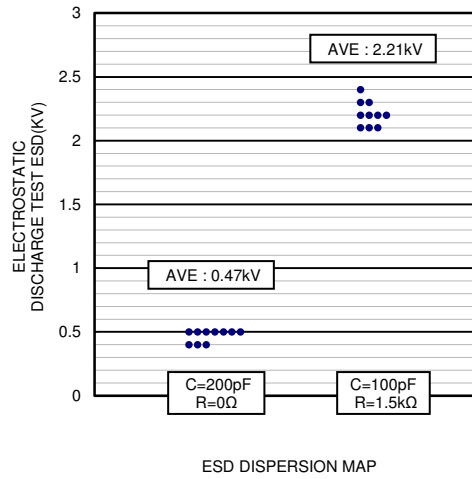
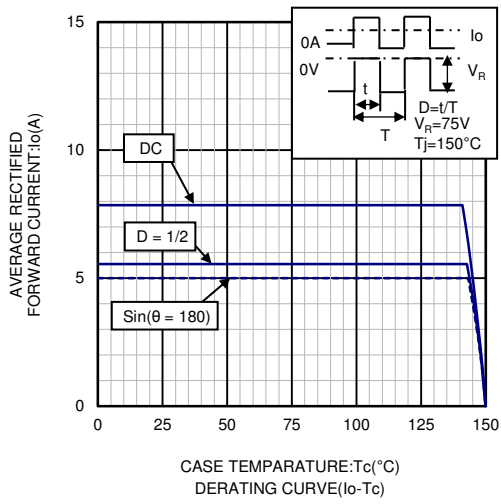
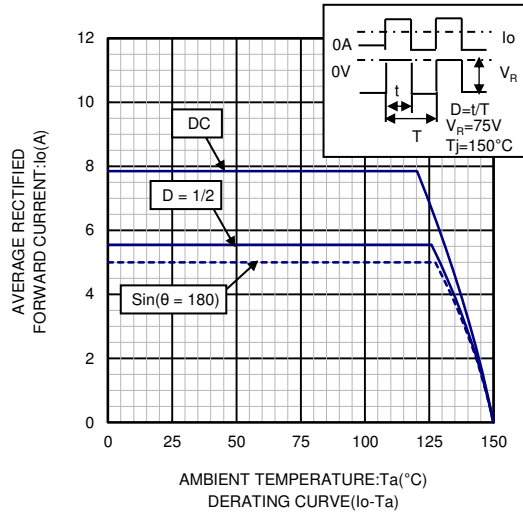
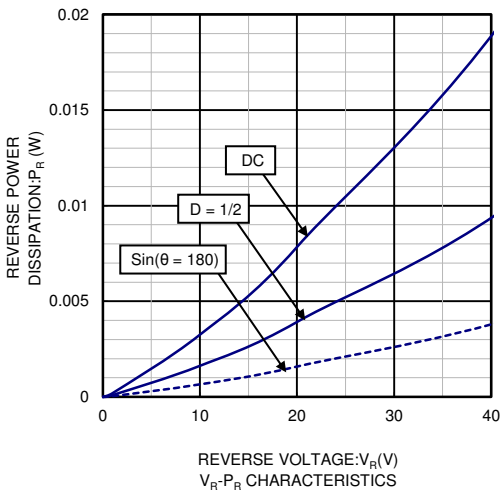
I_{FSM} - t CHARACTERISTICS



R_{th} - t CHARACTERISTICS



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



Notes

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