

# Schottky barrier diode

## RB215T-60

●Applications

Switching power supply

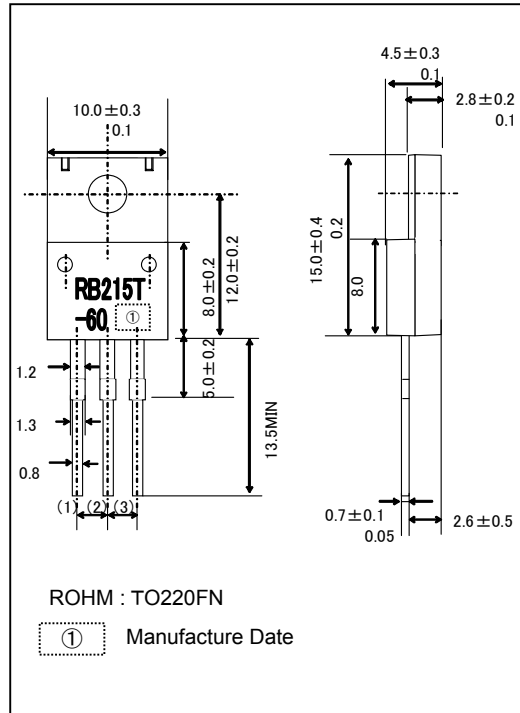
●Features

- 1)Cathode common type.(TO-220)
- 2)Low IR
- 3)High reliability

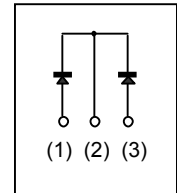
●Construction

Silicon epitaxial planar

●Dimensions (Unit : mm)



●Structure



●Absolute maximum ratings (Ta=25°C)

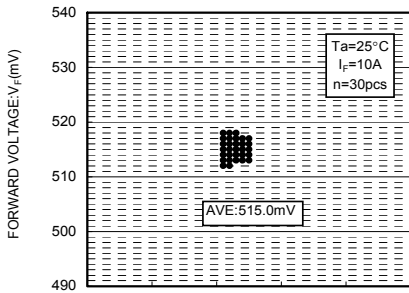
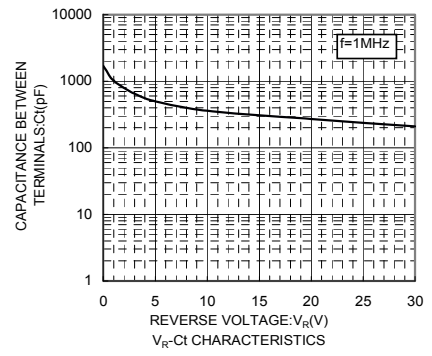
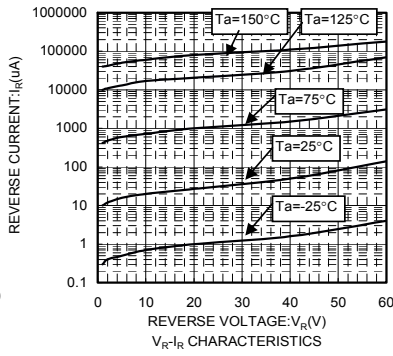
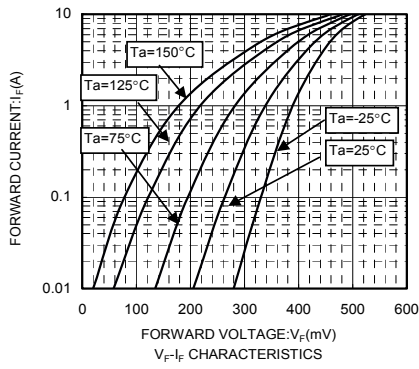
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	60	V
Reverse voltage (DC)	$V_R$	60	V
Average rectified forward current (*1)	$I_o$	20	A
Forward current surge peak (60Hz/1cyc) (*1)	$I_{FSM}$	100	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

(\*1)Business frequencies, Rating of R-load, 1/2  $I_o$  per diode, Ta=116°C

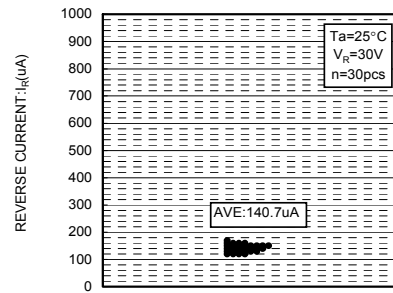
●Electrical characteristic(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.58	V	$I_F=10A$
Reverse current	$I_R$	-	-	600	μA	$V_R=60V$
Thermal impedance	$\theta_{jc}$	-	-	1.75	°C/W	junction to case

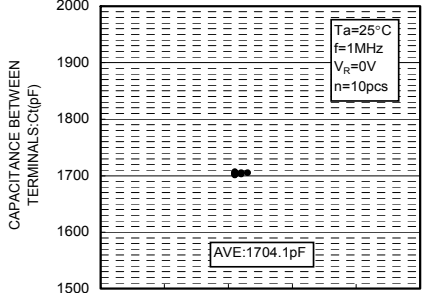
●Electrical characteristics curves



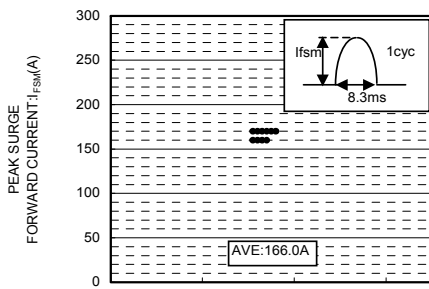
$V_F$  DISPERSION MAP



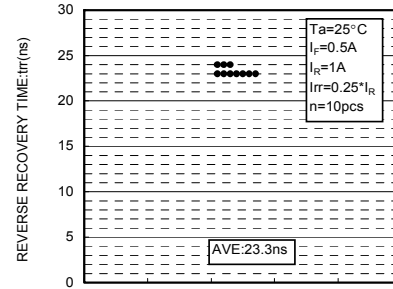
$I_R$  DISPERSION MAP



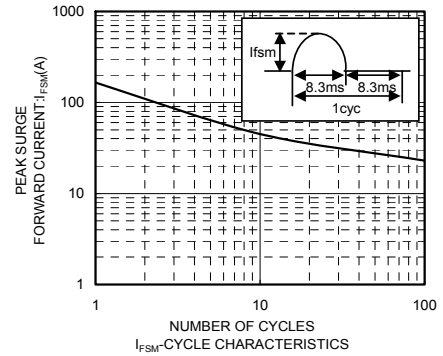
C DISPERSION MAP



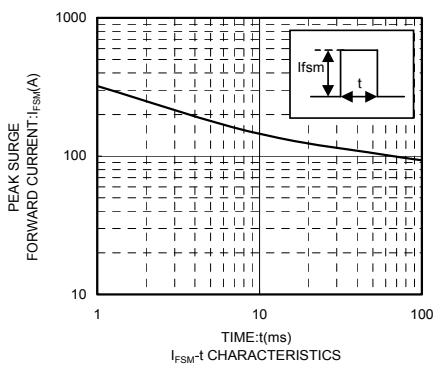
$I_{FSM}$  DISPERSION MAP



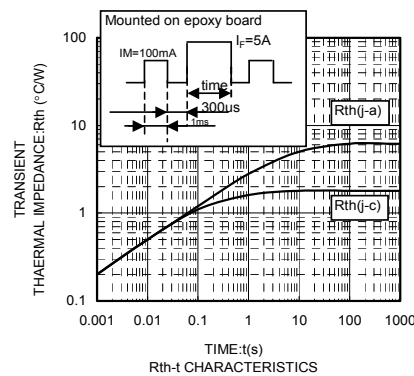
$t_{rr}$  DISPERSION MAP



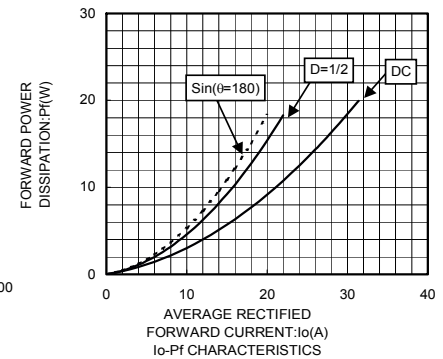
$I_{FSM}$ -CYCLE CHARACTERISTICS



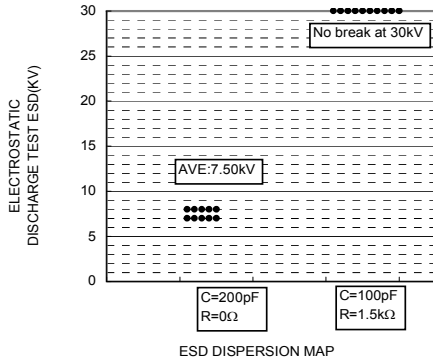
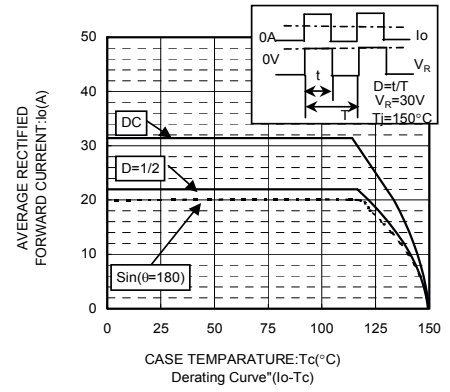
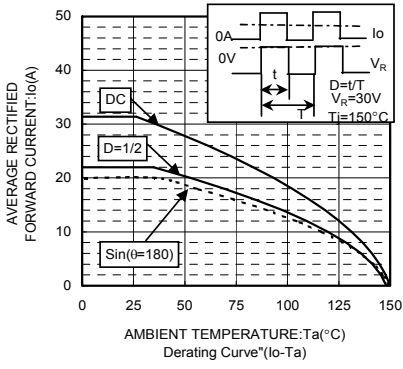
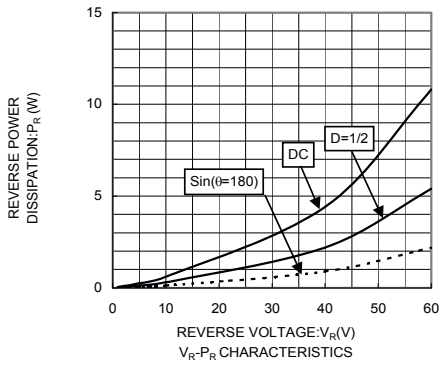
$I_{FSM}$ - $t$  CHARACTERISTICS



$R_{th}$ - $t$  CHARACTERISTICS



$I_o$ - $P$  CHARACTERISTICS



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