

Schottky barrier diode

RB225T-60

●Applications

Switching power supply

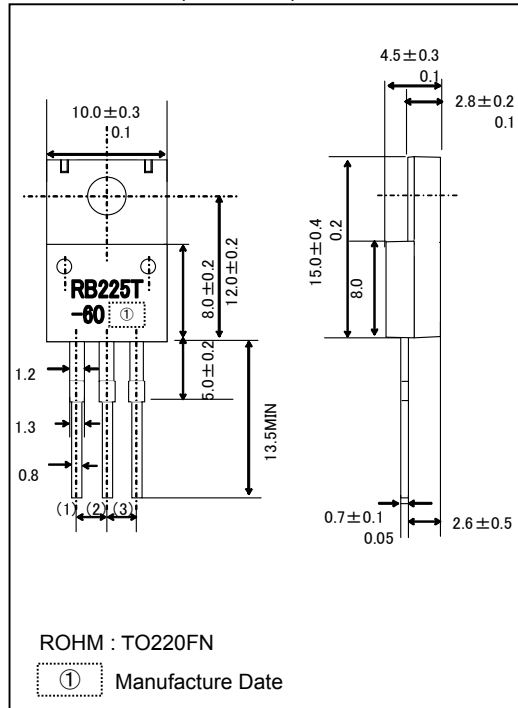
●Features

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

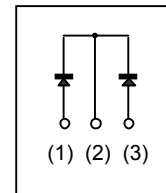
●Construction

Silicon epitaxial planar

●Dimensions (Unit : mm)



●Structure



●Absolute maximum ratings (Ta=25°C)

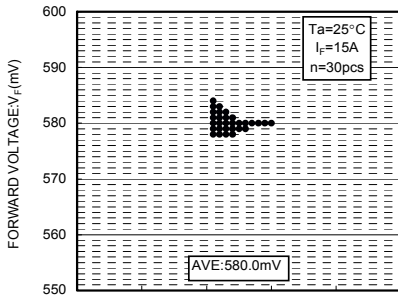
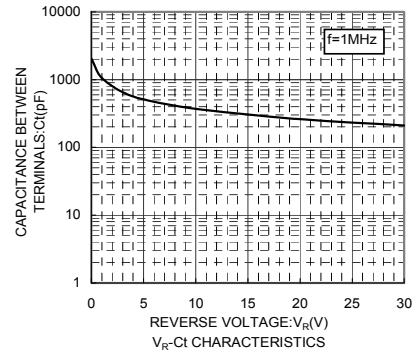
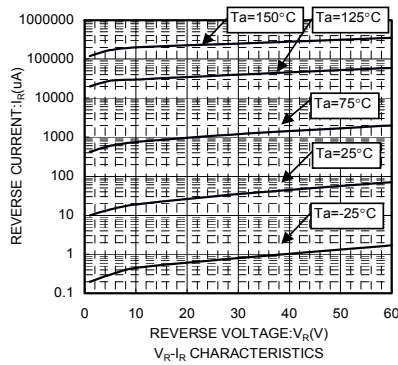
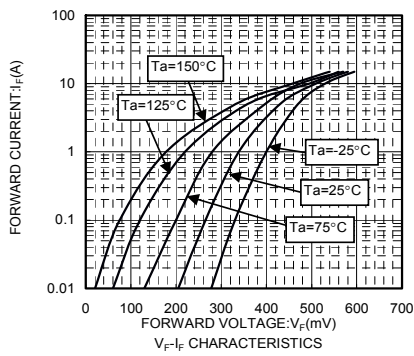
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current(*1)	I_o	30	A
Forward current surge peak (60Hz/1cyc) (*1)	I_{FSM}	100	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

(*1)Business frequencies, Rating of R-load, 1/2 I_o per diode, Ta=108°C

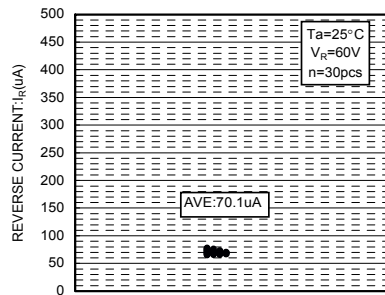
●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward characteristics	V_F	-	-	0.63	V	$I_F=15A$
Reverse characteristics	I_R	-	-	600	μA	$V_R=60V$
Thermal impedance	θ_{jc}	-	-	1.75	°C/W	junction to case

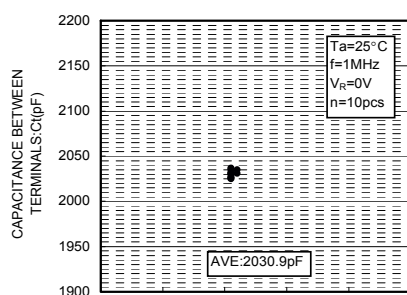
●Electrical characteristic curves



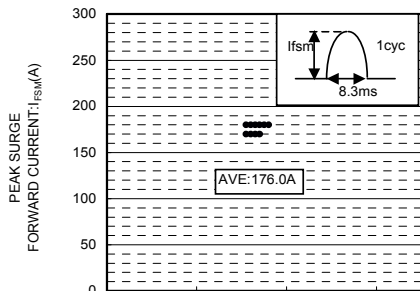
V_F DISPERSION MAP



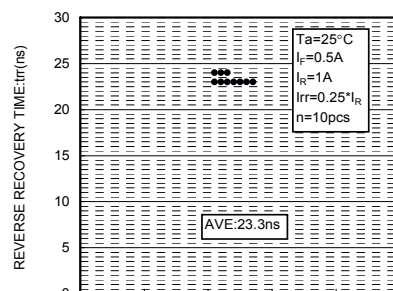
I_R DISPERSION MAP



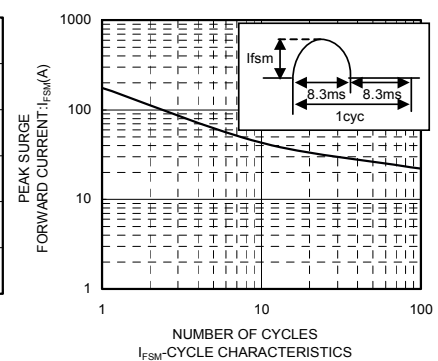
C_T DISPERSION MAP



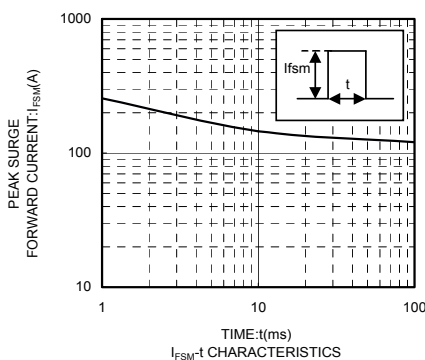
I_{FSM} DISPERSION MAP



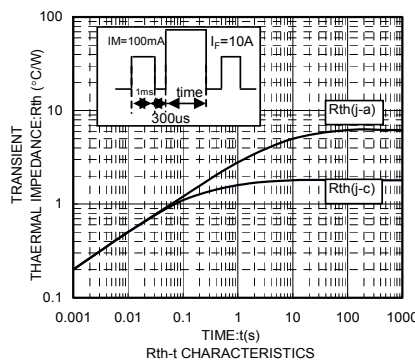
t_{rr} DISPERSION MAP



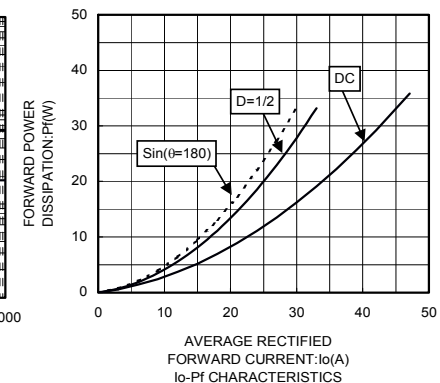
I_{FSM} CYCLE CHARACTERISTICS



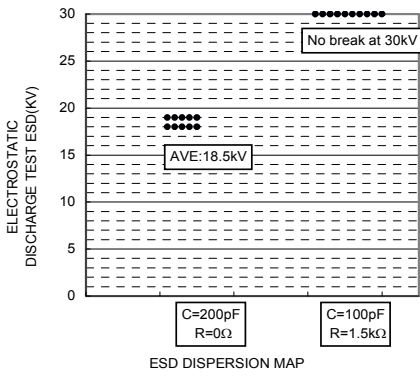
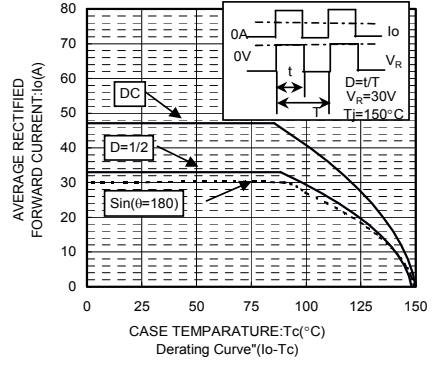
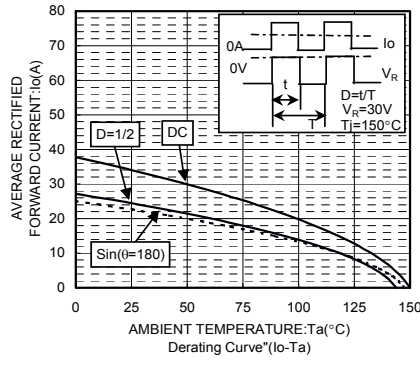
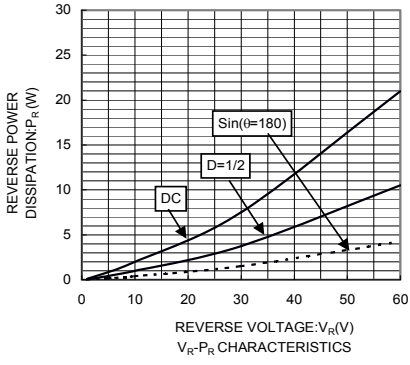
$I_{FSM}-t$ CHARACTERISTICS



$R_{th}-t$ CHARACTERISTICS



I_o-P CHARACTERISTICS



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