

● Application

Switching power supply

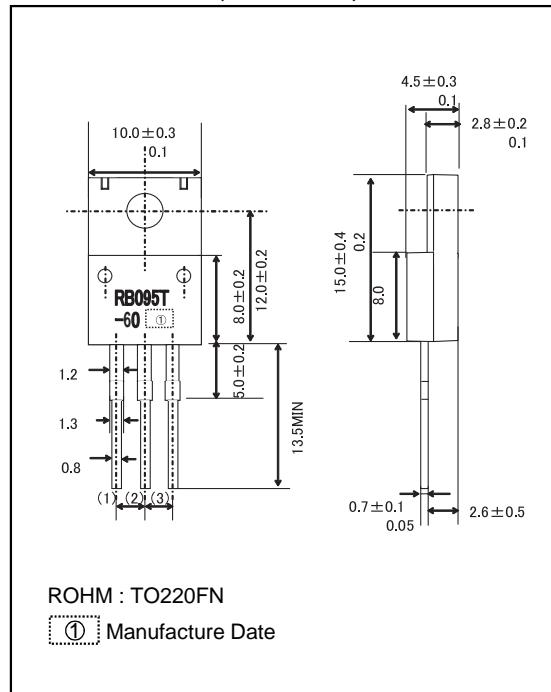
● Features

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

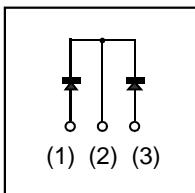
● Construction

Silicon epitaxial planar

● Dimensions (Unit : mm)



● Structure

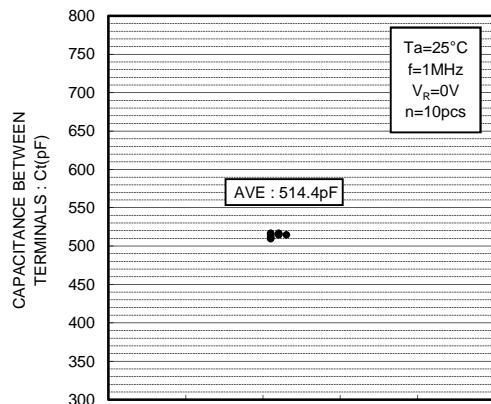
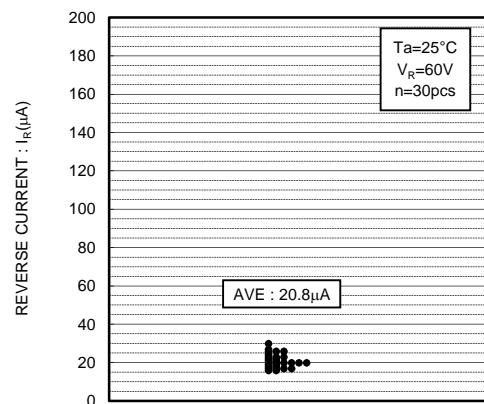
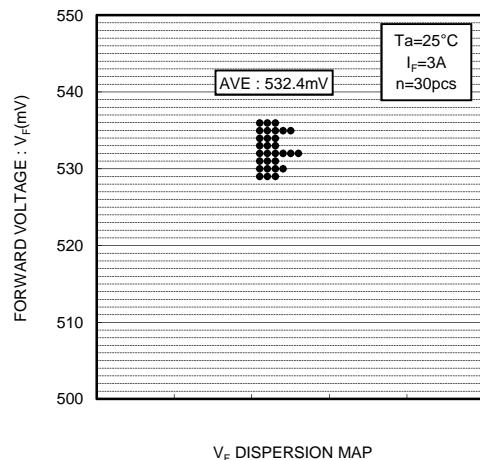
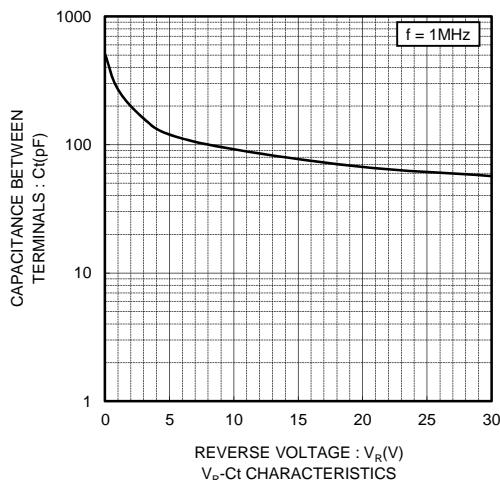
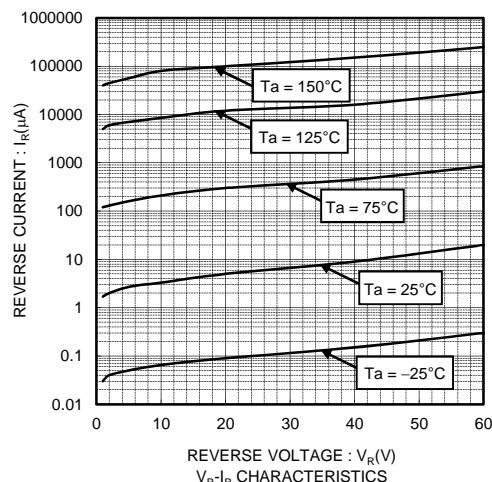
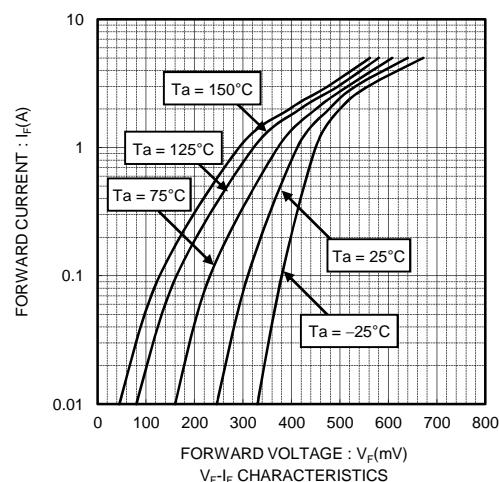
● Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

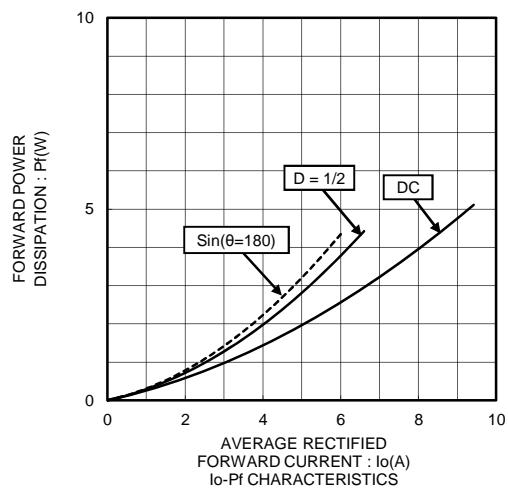
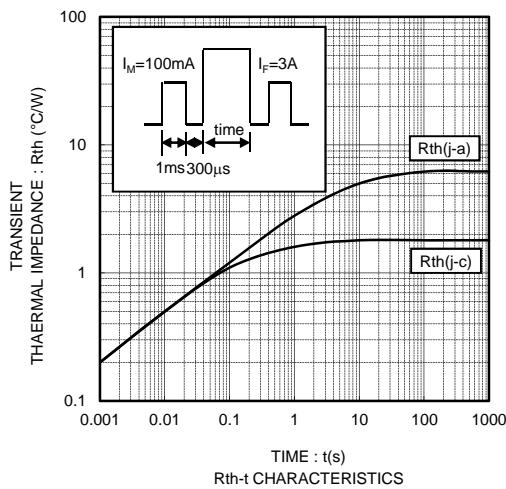
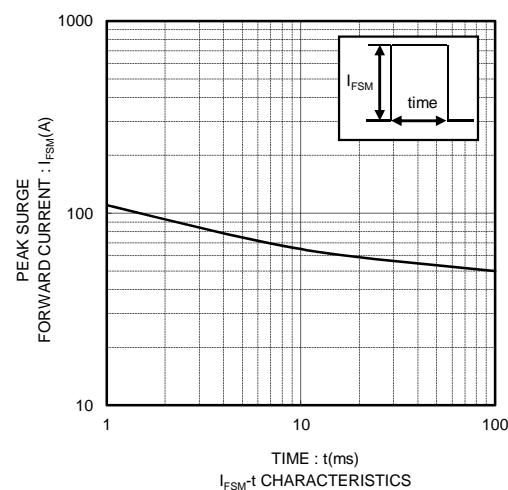
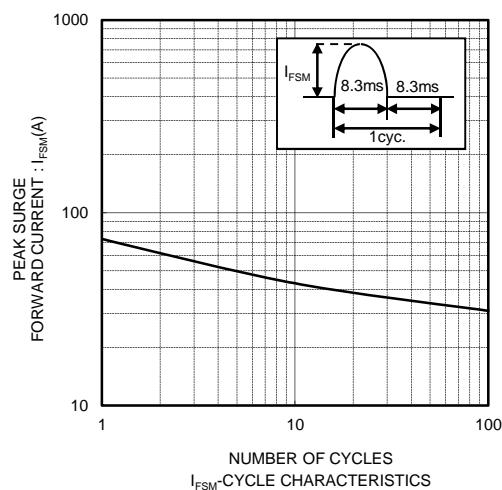
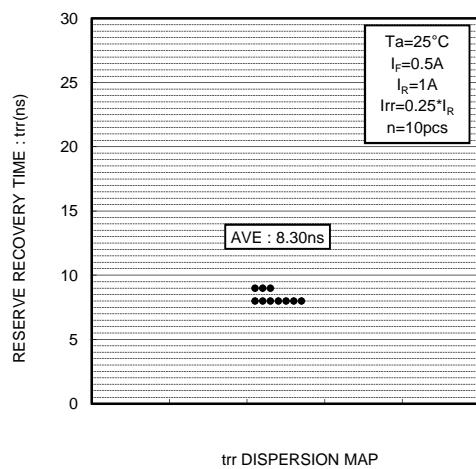
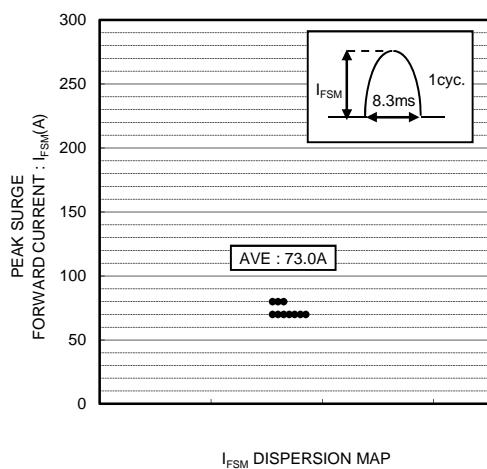
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	I_o	6	A
Forward current surge peak (60Hz/1cyc)	I_{FSM}	100	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +150	$^\circ\text{C}$

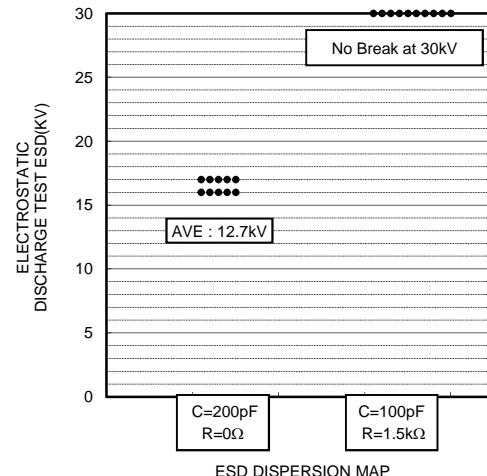
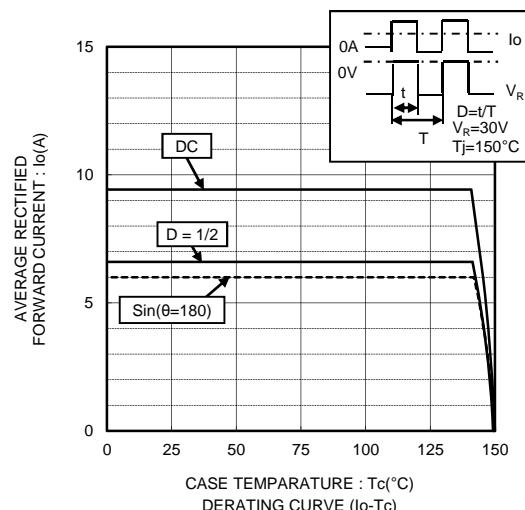
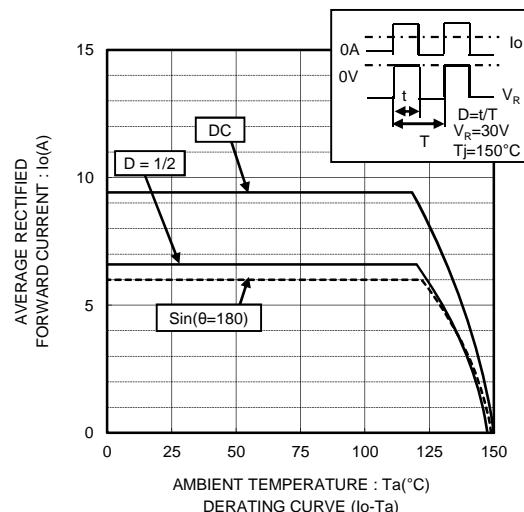
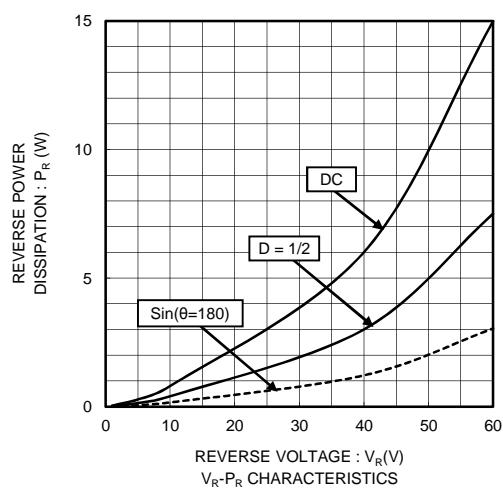
(*1) Business frequencies, Rating of R-load, 1/2 I_o per diode, $T_c=130^\circ\text{C}$

● Electrical characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.58	V	$I_F=3\text{A}$
Reverse current	I_R	-	-	300	μA	$V_R=60\text{V}$
Thermal impedance	θ_{jc}	-	-	3.0	$^\circ\text{C/W}$	junction to case







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