

Diodes

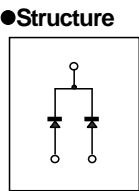
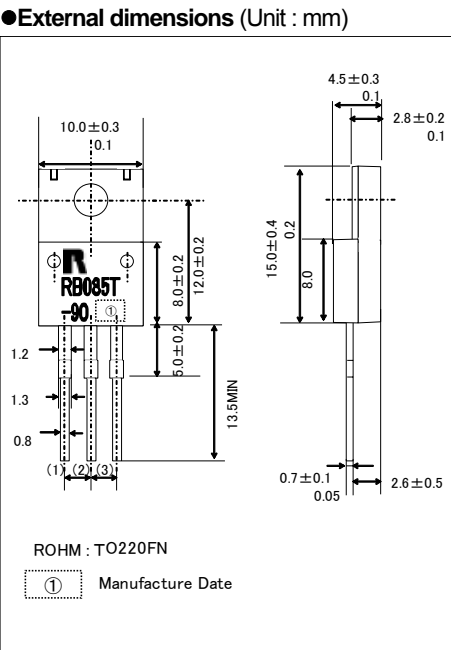
Schottky barrier diode

RB085T-90

●Applications
Switching power supply

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

●Construction
Silicon epitaxial planar



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	90	V
Reverse voltage (DC)	V_R	90	V
Average rectified forward current (*1)	I_o	10	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

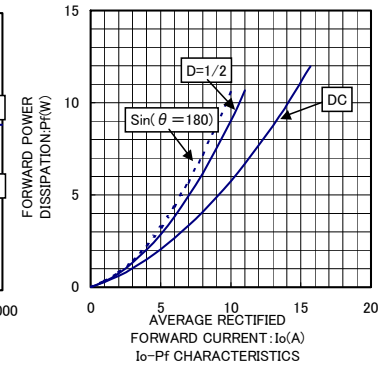
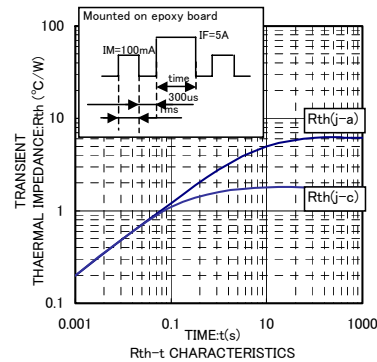
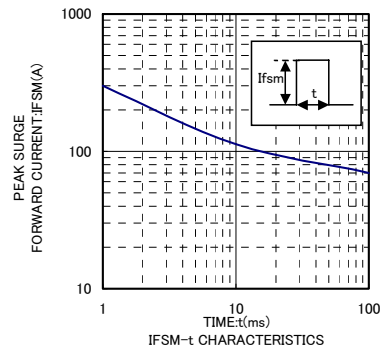
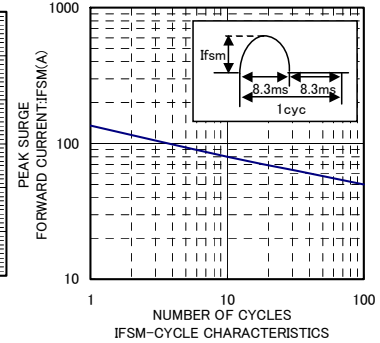
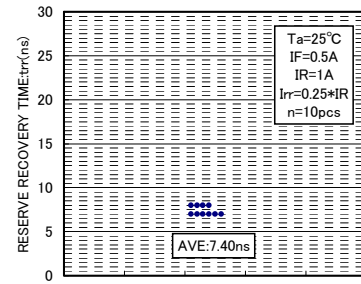
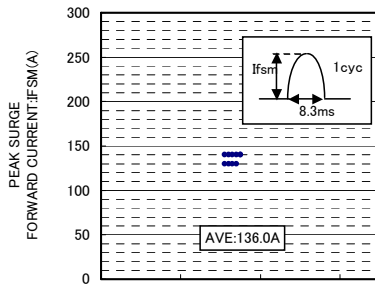
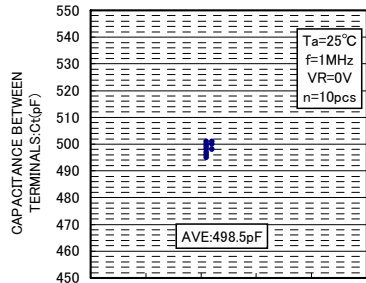
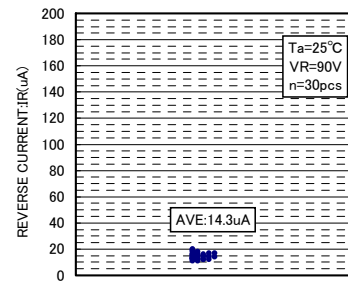
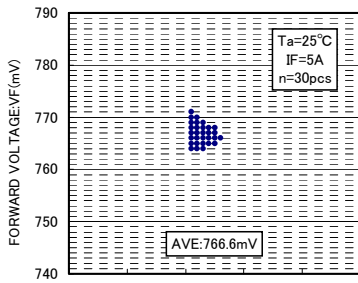
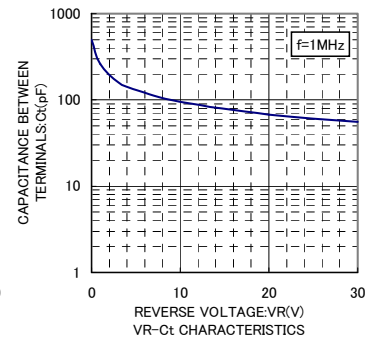
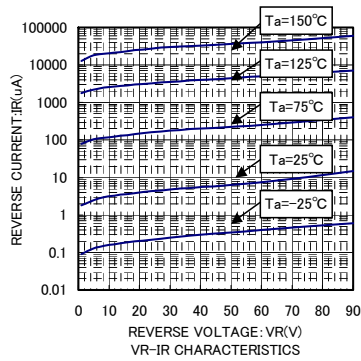
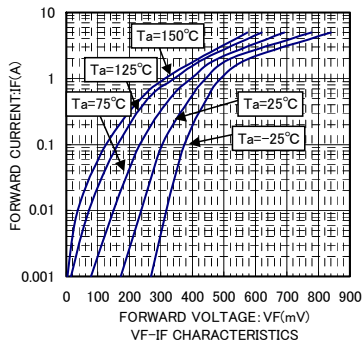
(*1) $T_c=100^{\circ}C_{max}$ Per chip : $I_o/2$

●Electrical characteristic (Ta=25°C)

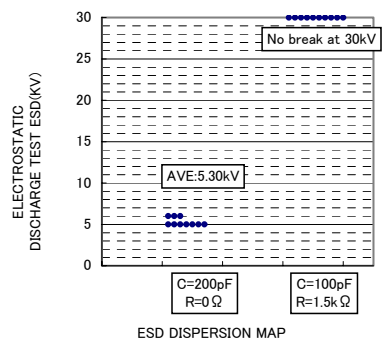
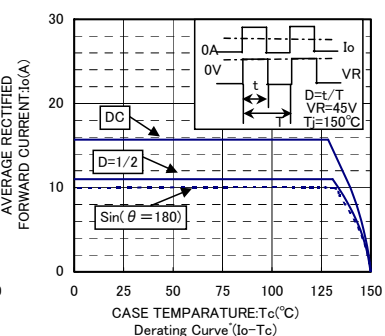
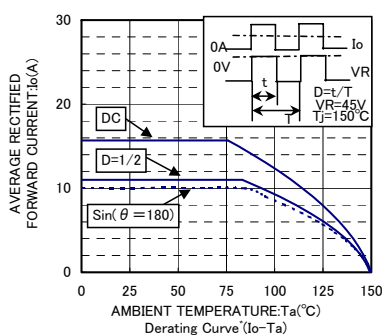
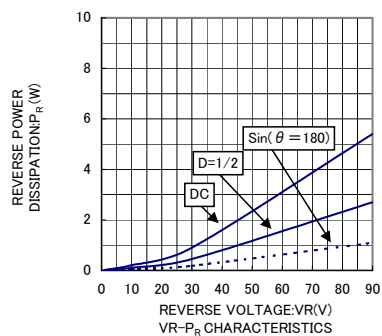
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward characteristics	V_F	-	-	0.83	V	$I_F=5A$
Reverse characteristics	I_R	-	-	150	μA	$V_R=90V$
Thermal impedance	θ_{jc}	-	-	2.5	°C/W	junction to case

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●Electrical characteristic curves



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