

Schottky barrier diode

RB085B-40

●Applications

General rectification

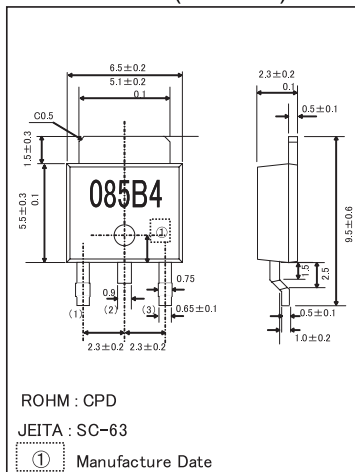
●Features

- 1) Power mold type. (CPD)
- 2) Low V_F
- 3) High reliability

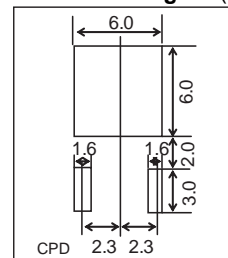
●Construction

Silicon epitaxial planar

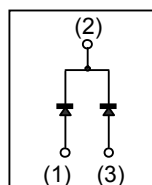
●Dimensions (Unit : mm)



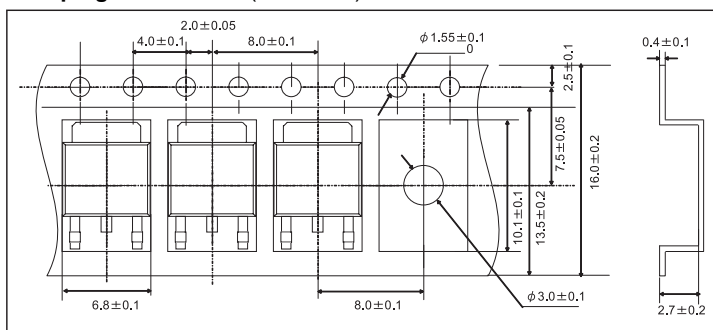
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

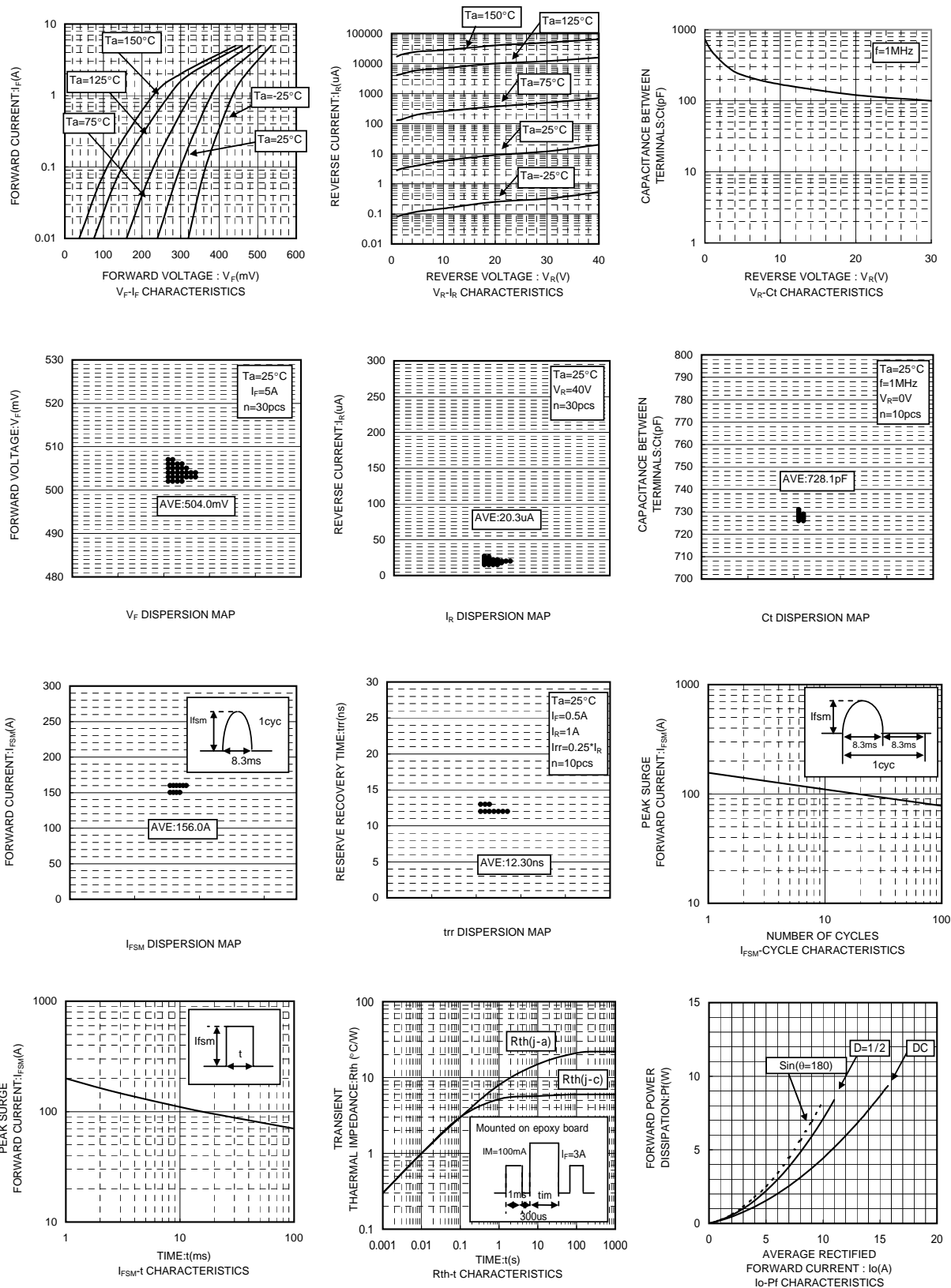
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	45	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current(*1)	I_O	10	A
Forward current surge peak(60Hz / 1cyc)	I_{FSM}	45	A
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

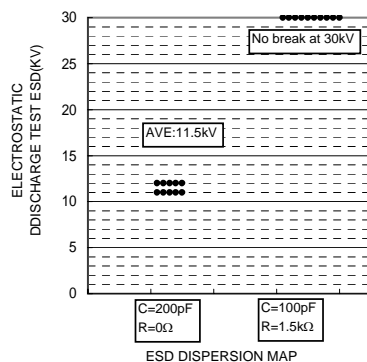
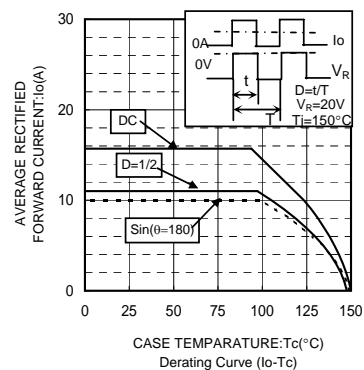
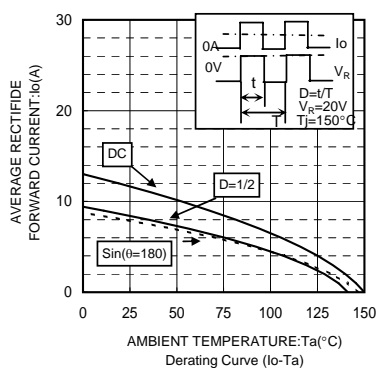
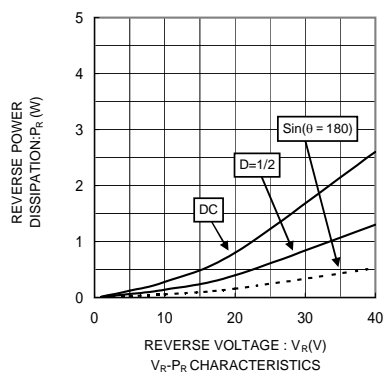
(*1) Rating of per diode : $I_O/2$

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.55	V	$I_F=5.0A$
Reverse current	I_R	-	-	200	μA	$V_R=40V$
Thermal impedance	θ_{jc}	-	-	6.0	°C/W	junction to case

● Electrical characteristic curves





Notes

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