

# Schottky barrier diode

# RB085B-40

# Applications

General rectification

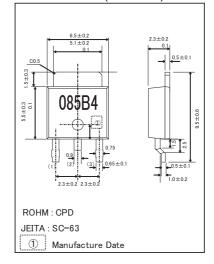
#### Features

- 1) Power mold type. (CPD)
- 2) Low V<sub>F</sub>
- 3) High reliability

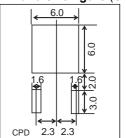
#### Construction

Silicon epitaxial planar

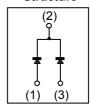
# • Dimensions (Unit : mm)



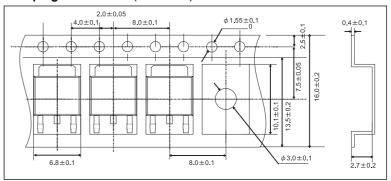
## ●Land size figure (Unit : mm)



#### Structure



## ●Taping dimensions (Unit : mm)



#### • Absolute maximum ratings (Ta=25°C)

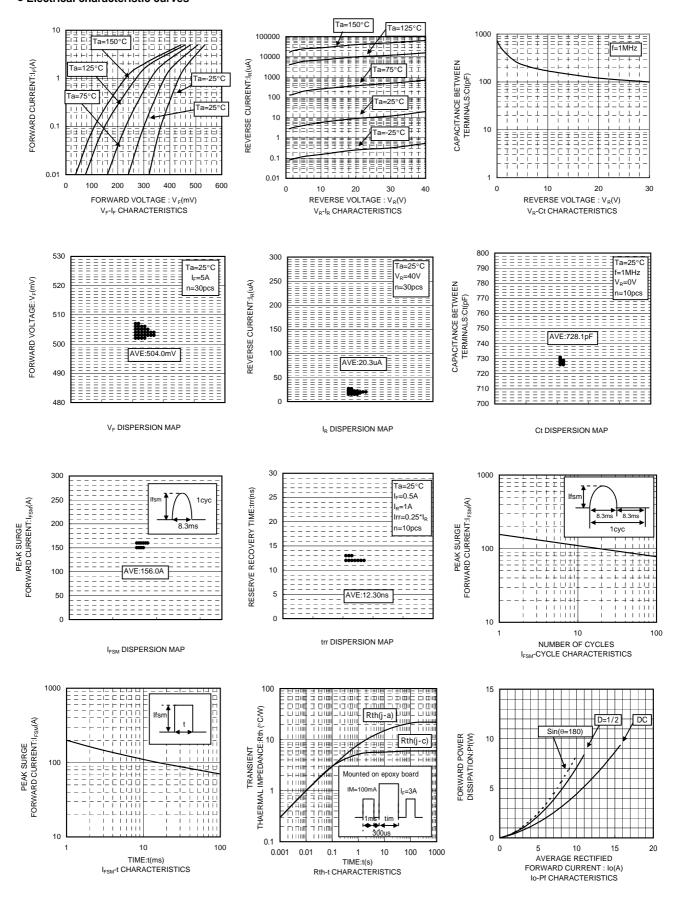
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	45	V
Reverse voltag (DC)	$V_R$	40	V
Average rectified forward current(*1)	lo	10	Α
Forward current surge peak(60Hz / 1cyc)	I <sub>FSM</sub>	45	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-40 to +150	°C

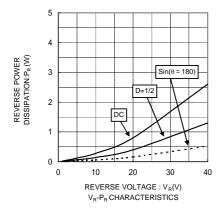
<sup>(\*1)</sup> Rating of per diode : Io/2

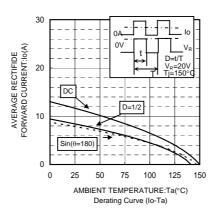
# • Electrical characteristic (Ta=25°C)

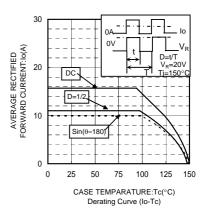
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	0.55	V	I <sub>F</sub> =5.0A
Reverse current	I <sub>R</sub>	-	-	200	μΑ	V <sub>R</sub> =40V
Thermal impedance	θјс	-	-	6.0	°C/W	junction to case

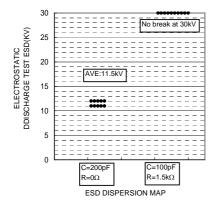
#### • Electrical characteristic curves











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