

# Shottky barrier diode

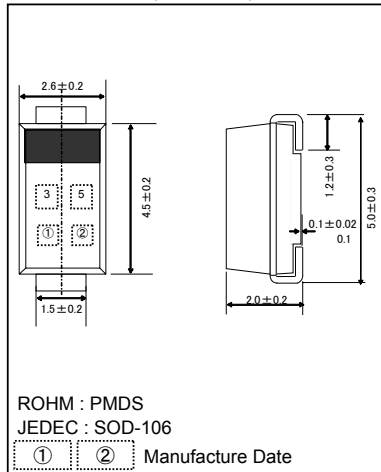
## RB050L-40

●Applications  
General rectification

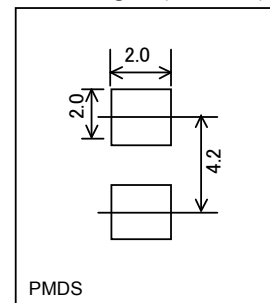
●Features  
1) Small power mold type. (PMDS)  
2) Low  $I_R$   
3) High reliability.

●Construction  
Silicon epitaxial planar

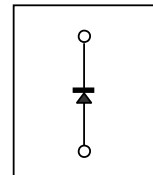
●Dimensions (Unit : mm)



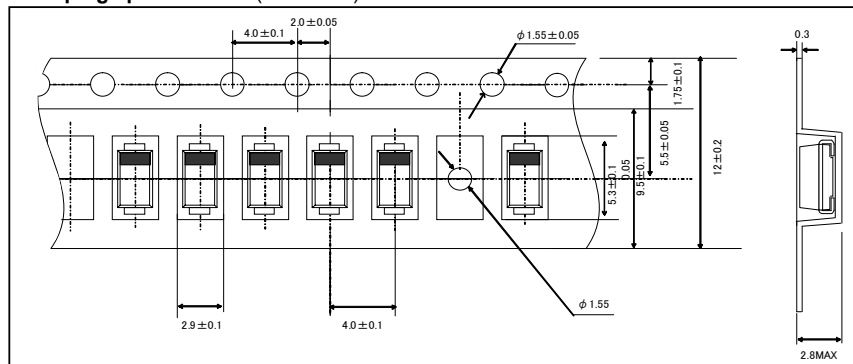
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

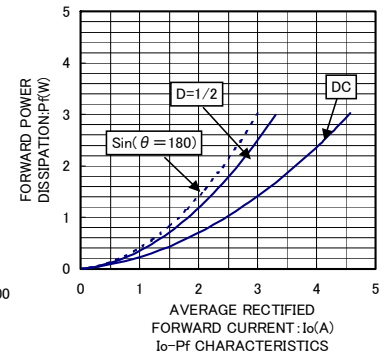
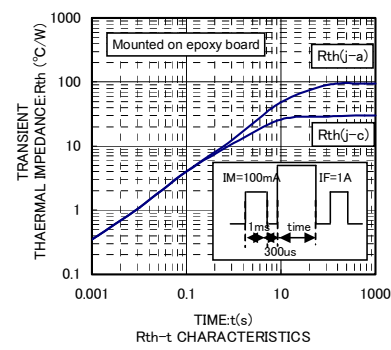
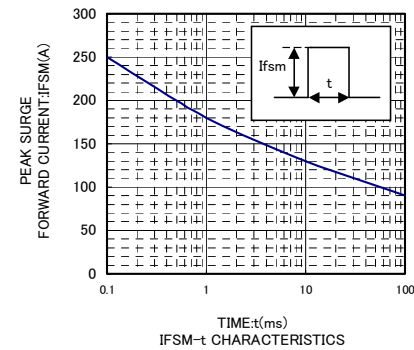
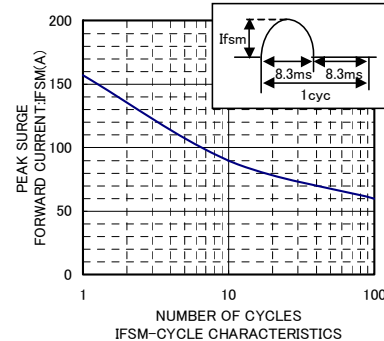
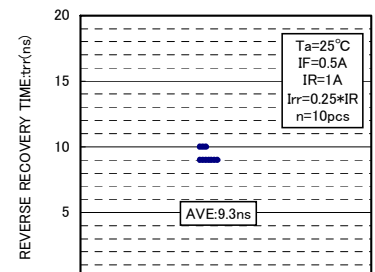
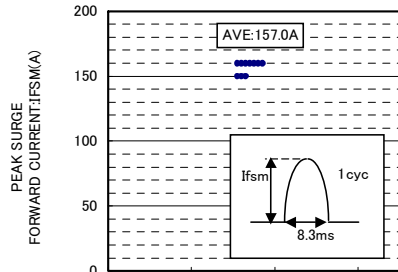
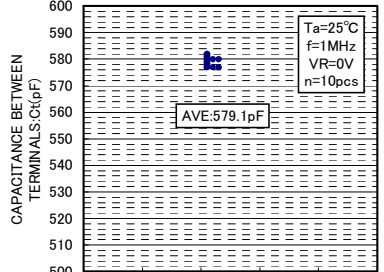
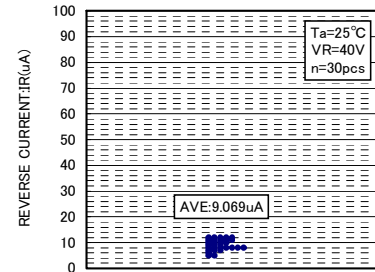
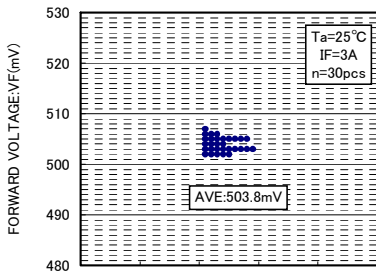
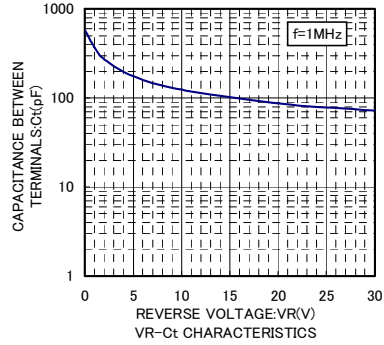
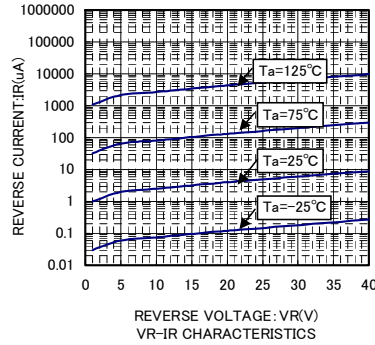
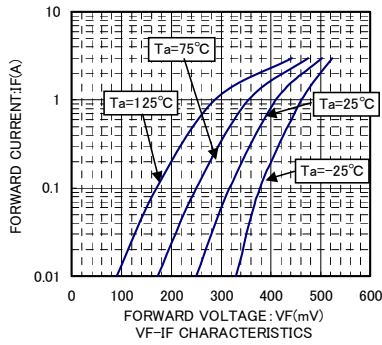
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward voltage	$I_o$	3	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

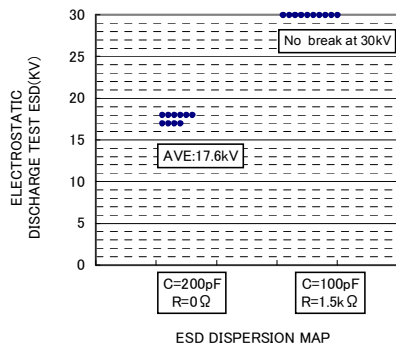
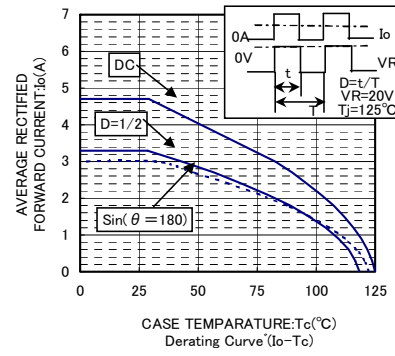
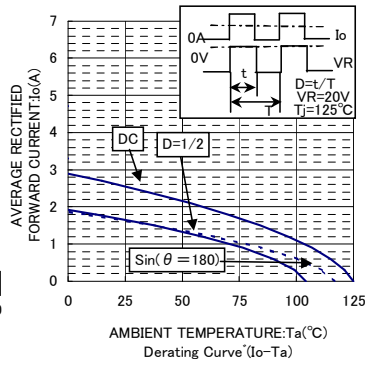
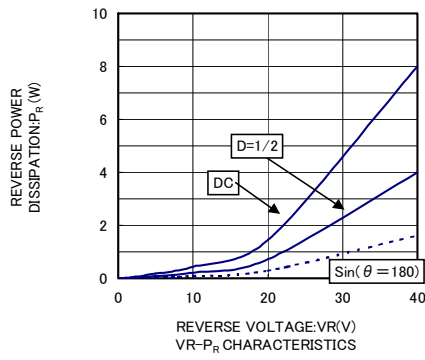
(\*1) Mounted on epoxy board. 180° Half sine wave

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.55	V	$I_F=3.0A$
	$V_{F2}$	-	-	0.50	V	$I_F=1.5A$
Reverse current	$I_R$	-	-	1	mA	$V_R=40V$

●Electrical characteristic curves (Ta=25°C)





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