

Schottky barrier diode

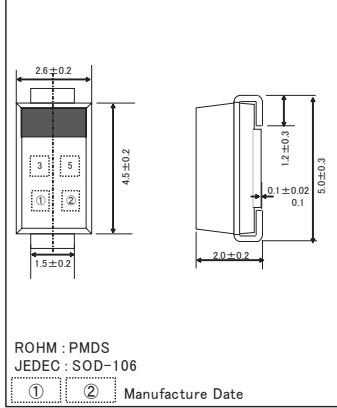
RB050L-40

● **Applications**
General rectification

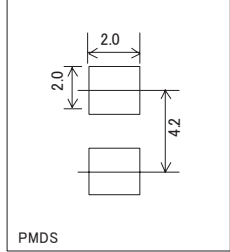
● **Features**
1) Small power mold type. (PMDS)
2) Low I_R .
3) High reliability.

● **Construction**
Silicon epitaxial planar

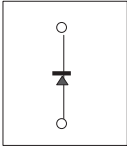
● **Dimensions (Unit : mm)**



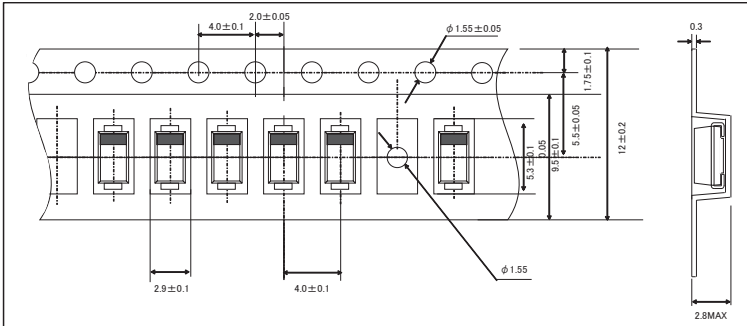
● **Land size figure (Unit : mm)**



● **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 current	I_o	3	A
Forward current surge peak (60Hz · 1 cyc)	I_{FSM}	70	A
Junction temperature	T_J	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

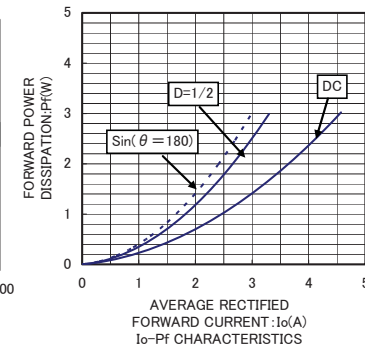
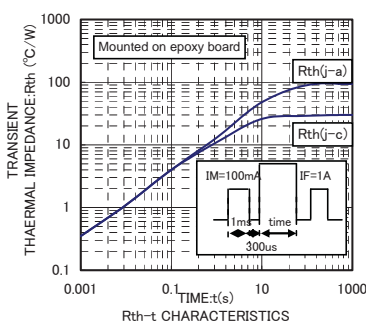
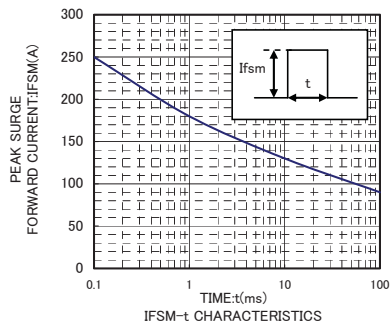
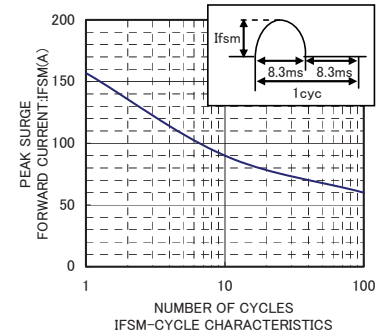
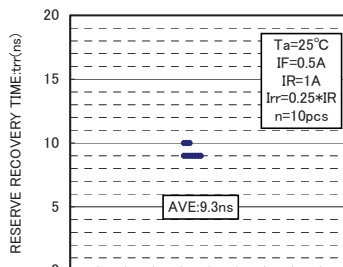
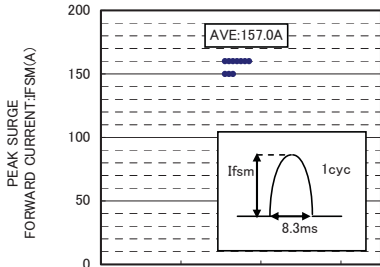
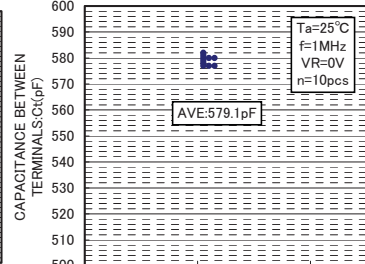
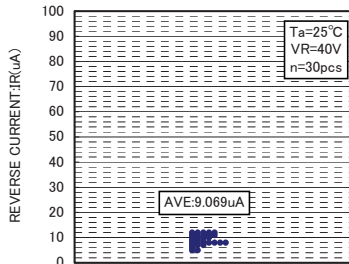
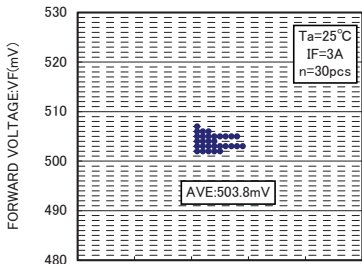
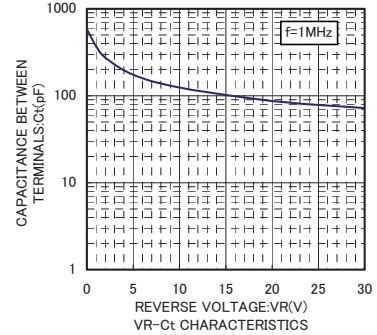
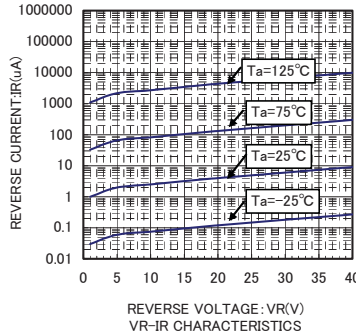
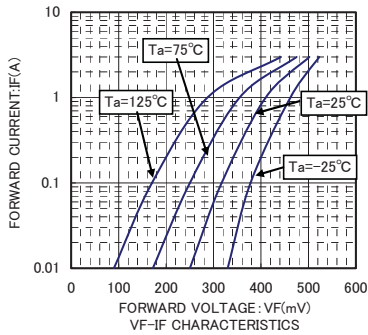
(*1) Mounted on epoxy board. 180° Half sine wave

● **Electrical characteristics (Ta=25°C)**

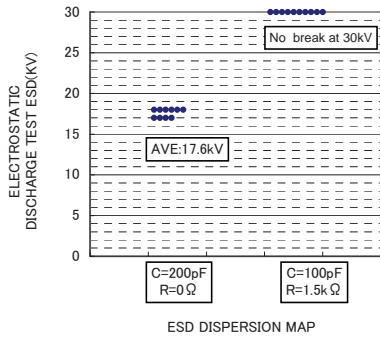
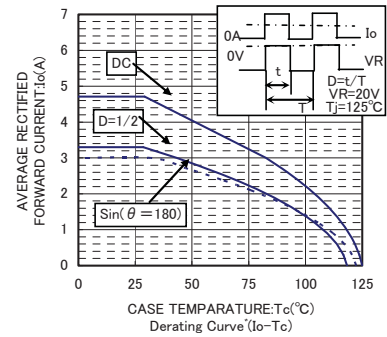
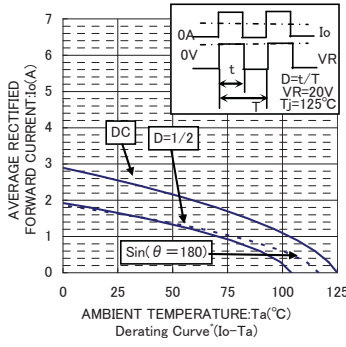
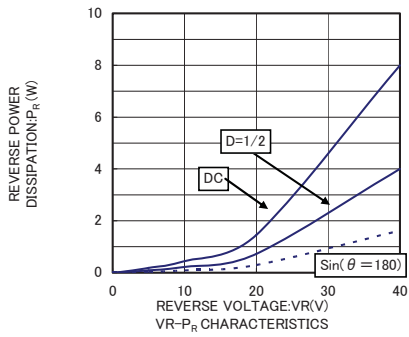
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.55	V	$I_F=3.0A$
	V_{F2}	-	-	0.50	V	$I_F=1.5A$
Reverse current	I_R	-	-	1	mA	$V_R=40V$

Diodes

● Electrical characteristic curves (Ta=25°C)



Diodes



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