

# Schottky barrier diode

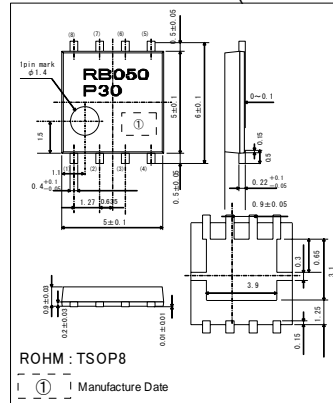
## RB050PS-30

**●Applications**  
Rectifying small power

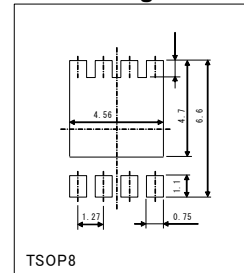
- Features**
- 1) High power mold type. (TSOP8)
  - 2) Low  $I_R$
  - 3) High reliability

**●Construction**  
Silicon epitaxial planar

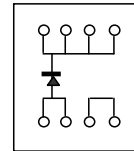
**●External dimensions (Unit : mm)**



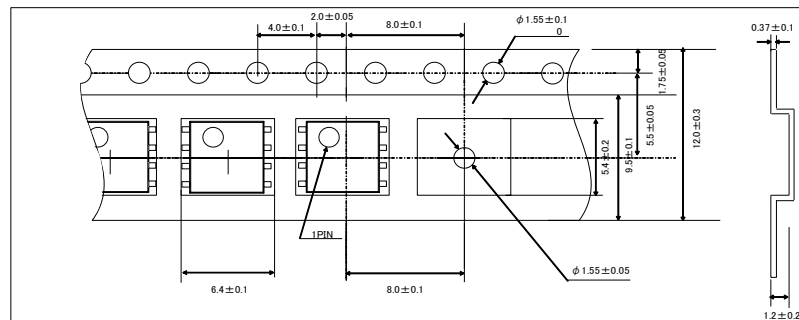
**●Land size figure**



**●Structure**



**●Taping dimensions (Unit : mm)**



**●Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	$I_o$	3	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	35	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

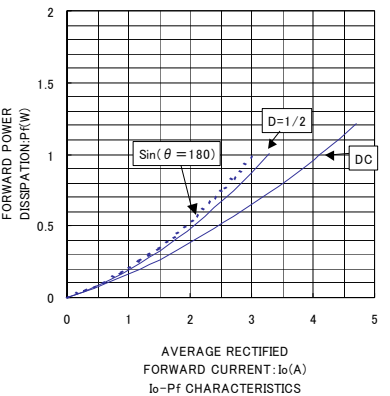
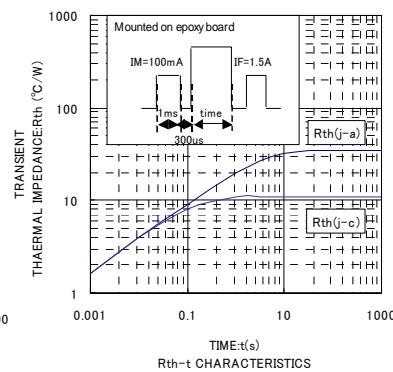
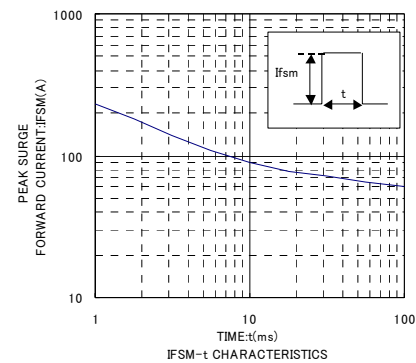
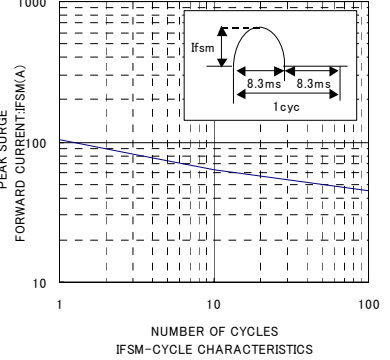
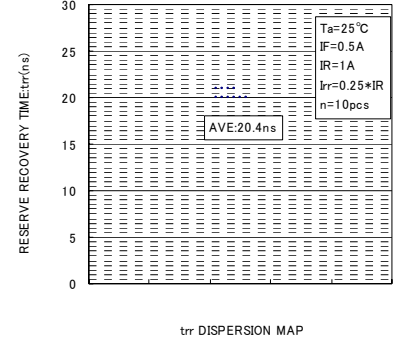
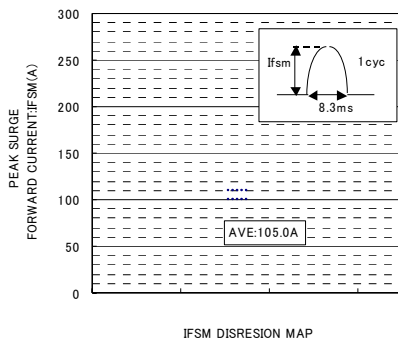
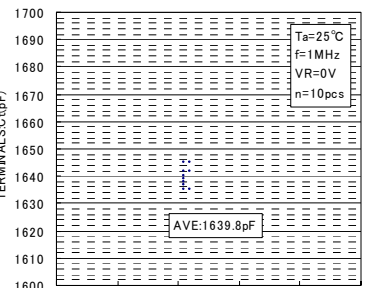
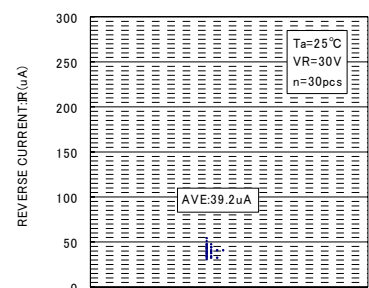
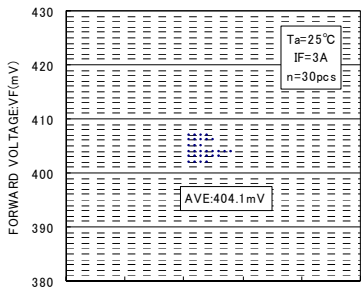
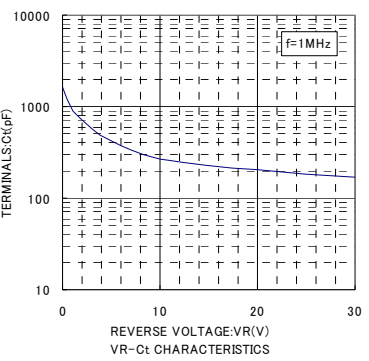
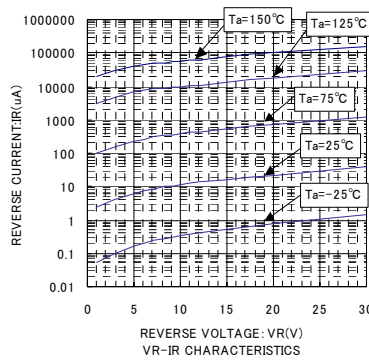
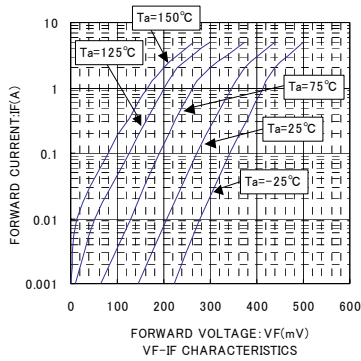
(\*1)  $T_c=100^\circ\text{Cmax}$

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

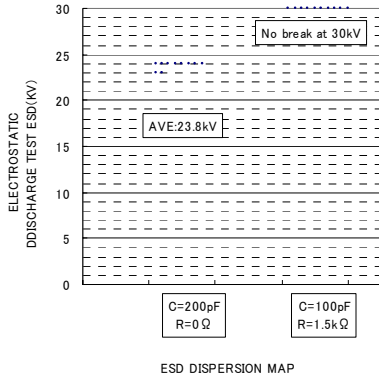
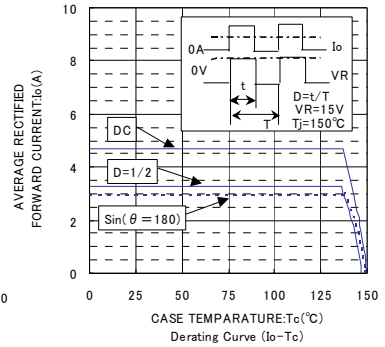
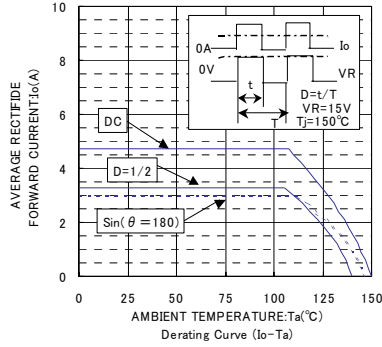
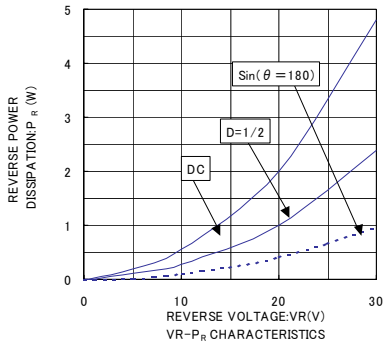
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.425	V	$I_F=3.0\text{A}$
Reverse current	$I_R$	-	-	200	$\mu\text{A}$	$V_R=30\text{V}$

Diodes

●Electrical characteristic curves



Diodes



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