

# Schottky barrier diode

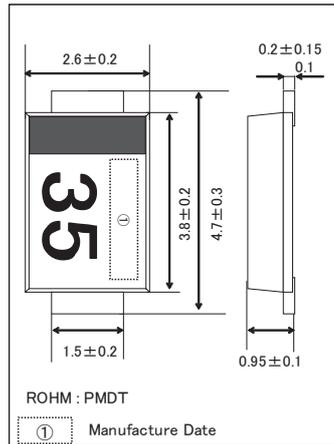
## RB050LA-40

**●Applications**  
General rectification

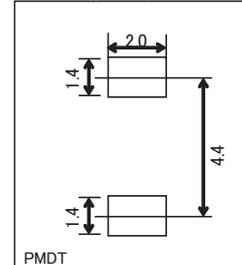
- Features**
- 1) Small power mold type (PMDT)
  - 2) Low  $I_R$
  - 3) High reliability

**●Structure**  
Silicon epitaxial planer

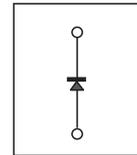
**●External dimensions (Unit : mm)**



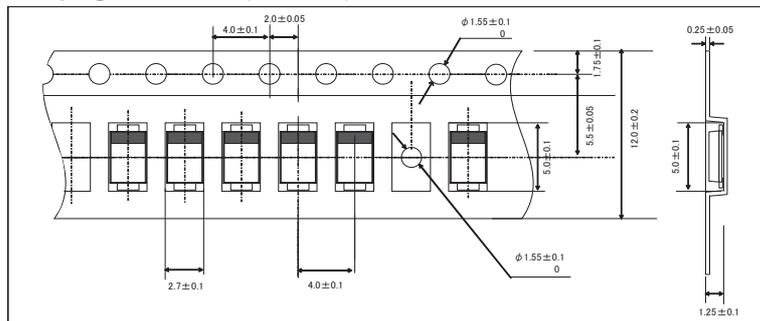
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping dimensions (Unit : mm)**



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	3	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

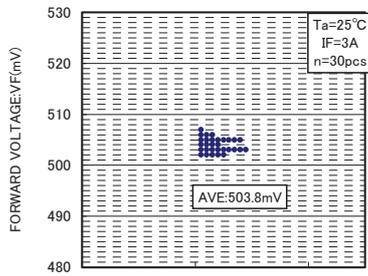
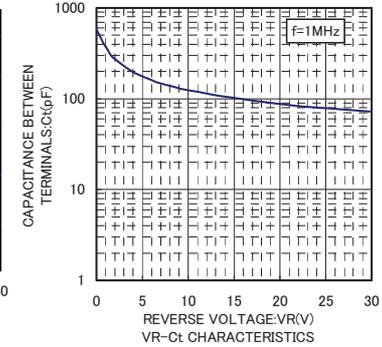
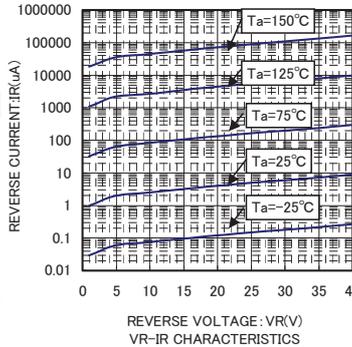
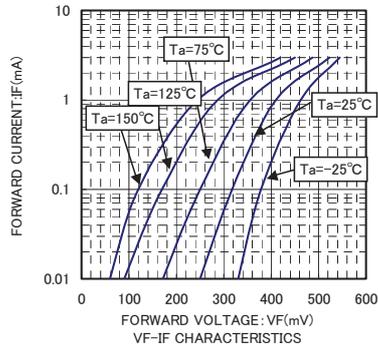
(\*1) Mounted on epoxy board. 180°Half sine wave

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

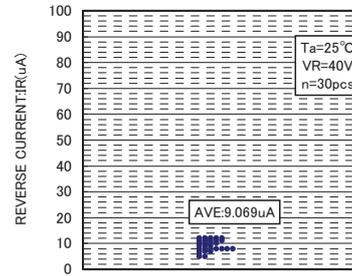
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.50	V	$I_F=1.5A$
	$V_{F2}$	-	-	0.55	V	$I_F=3.0A$
Reverse current	$I_R$	-	-	0.1	mA	$V_R=40V$

Diodes

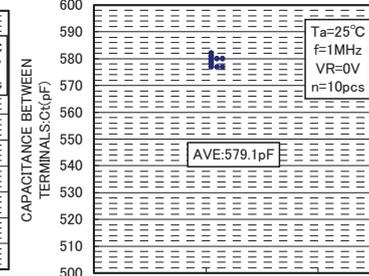
●Electrical characteristic curves



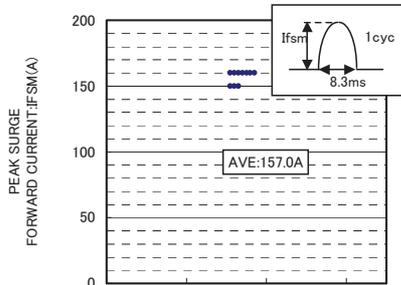
VF DISPERSION MAP



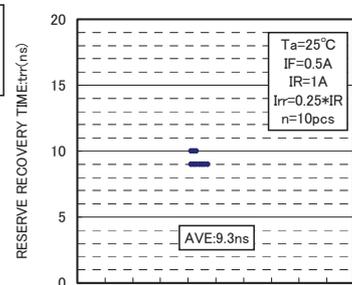
IR DISPERSION MAP



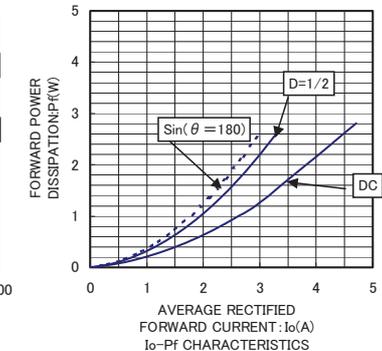
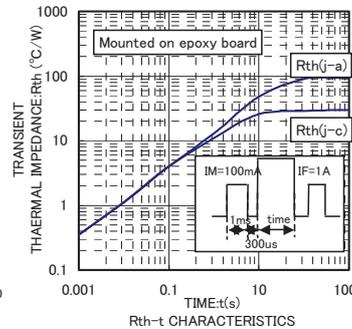
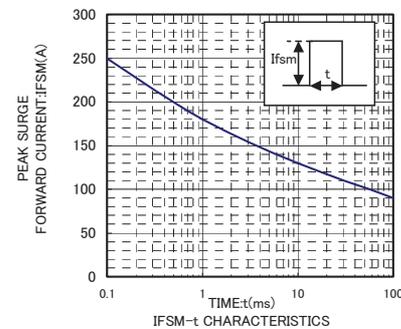
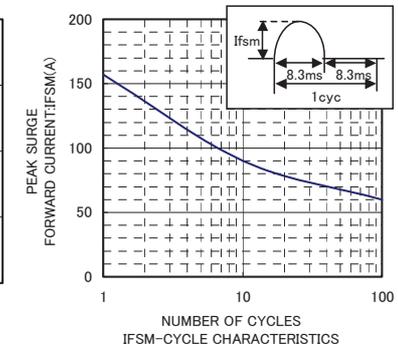
Ct DISPERSION MAP



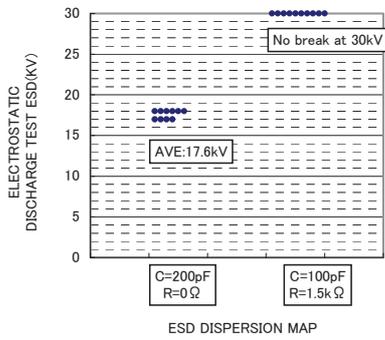
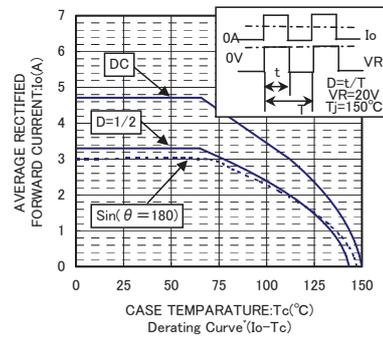
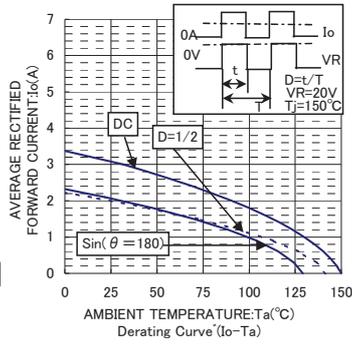
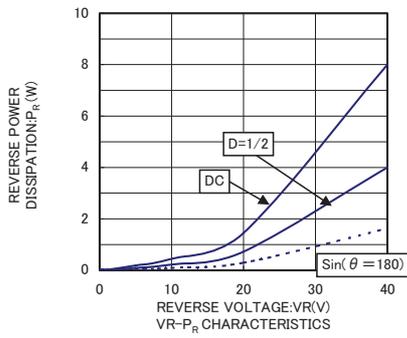
IFSM DISRESION MAP



trr DISPERSION MAP



Diodes



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