

Schottky barrier diode

RB050L-40

●Applications

General rectification

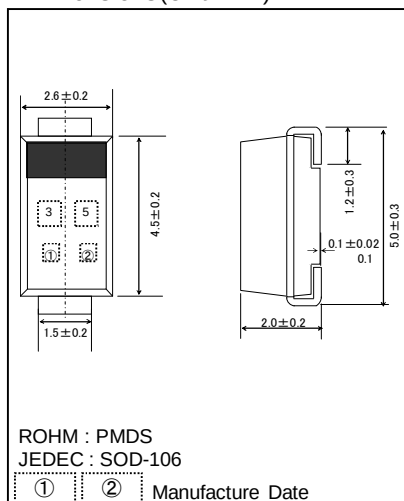
●Features

- 1) Small power mold type. (PMDS)
- 2) Low I_R
- 3) High reliability.

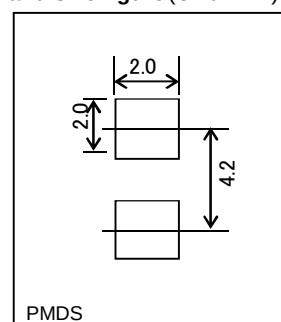
●Construction

Silicon epitaxial planar

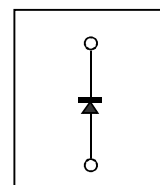
●Dimensions(Unit : mm)



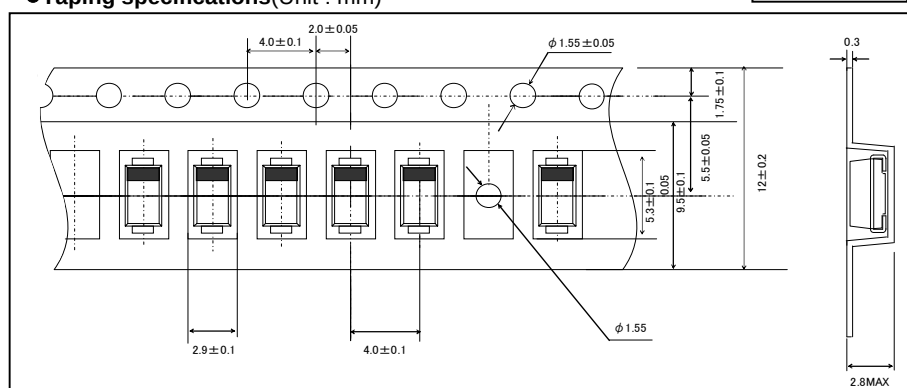
●Land size figure(Unit : mm)



●Structure



●Taping specifications(Unit : mm)



●Absolute maximum ratings($T_a=25^\circ\text{C}$)

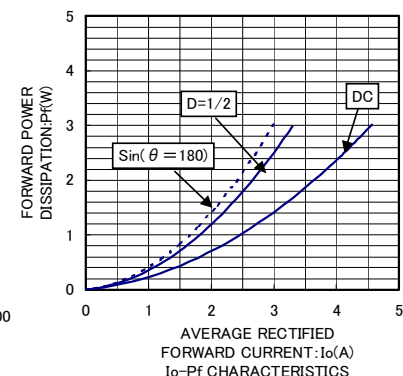
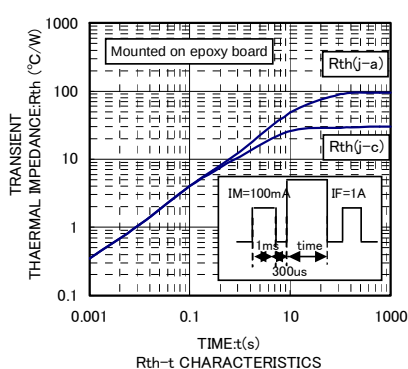
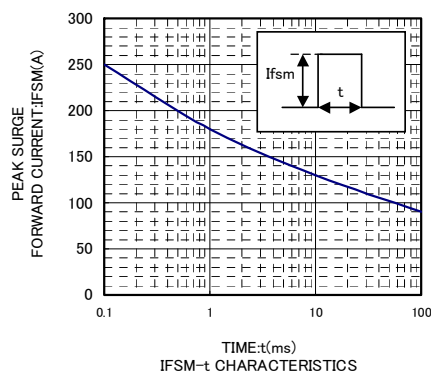
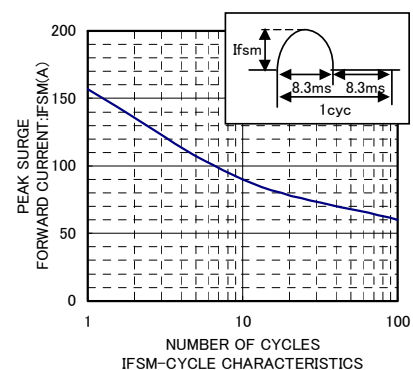
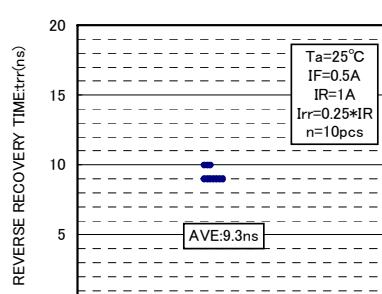
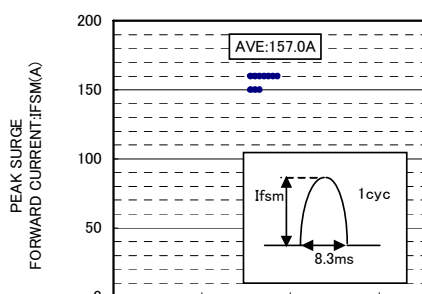
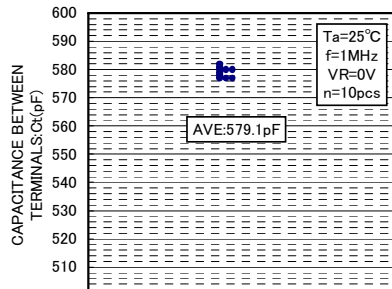
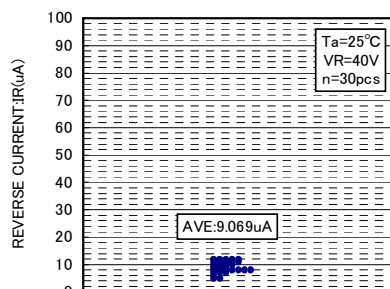
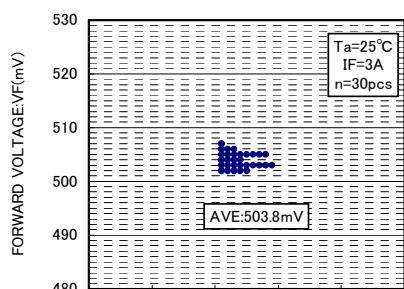
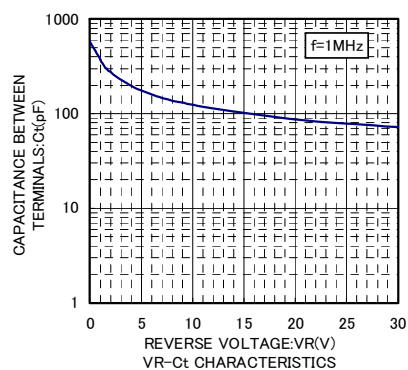
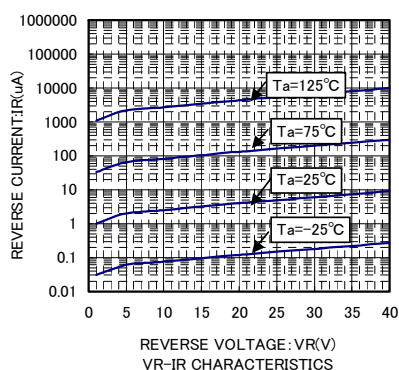
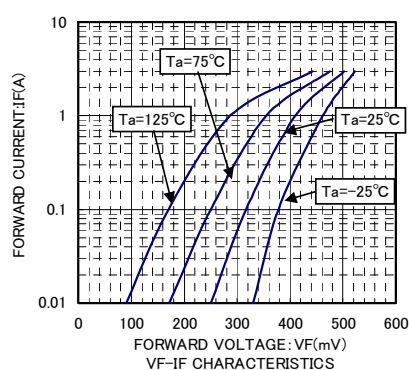
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_O	3	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	70	A
Junction temperature	T_J	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

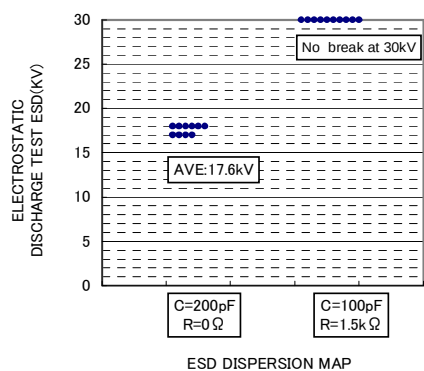
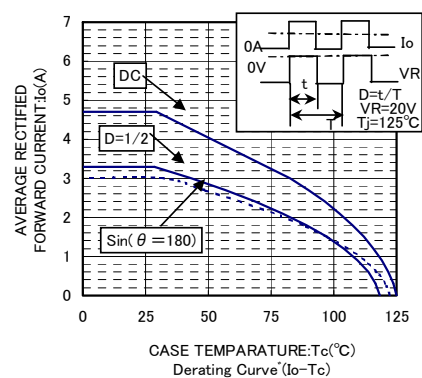
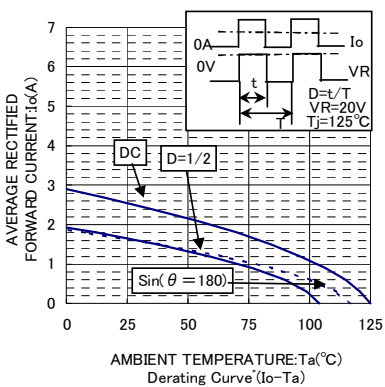
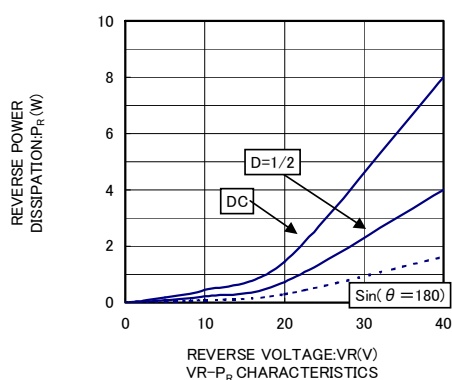
(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristics($T_a=25^\circ\text{C}$)

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

●Electrical characteristic curves (Ta=25°C)





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Contact Us :

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401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com