

# Schottky Barrier Diode

## RB161L-40

●Applications

General rectification

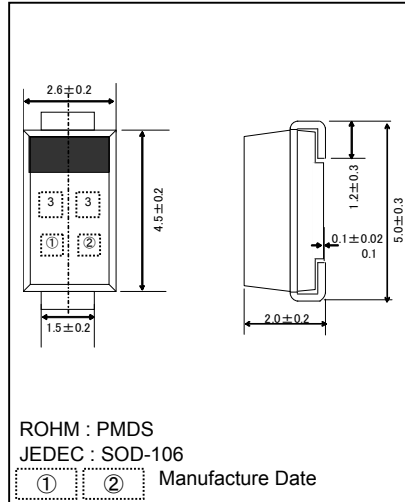
●Features

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

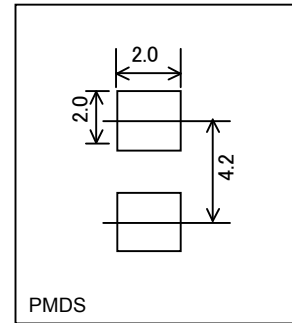
●Construction

Silicon epitaxial planar

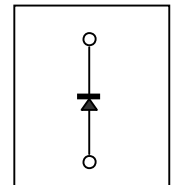
●Dimensions (Unit : mm)



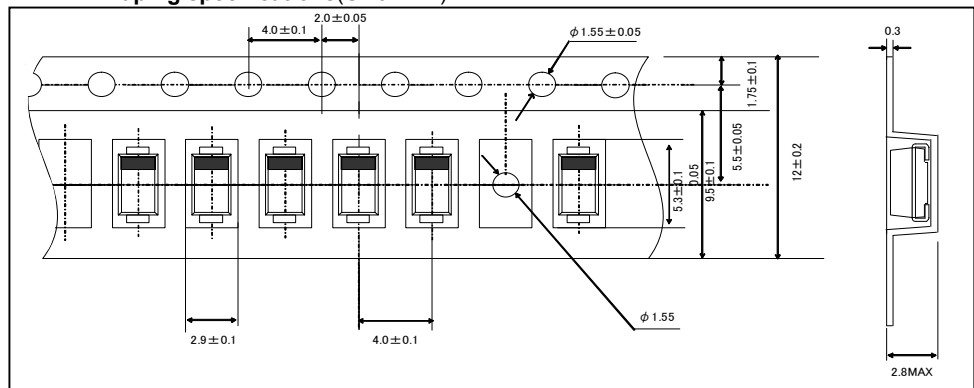
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



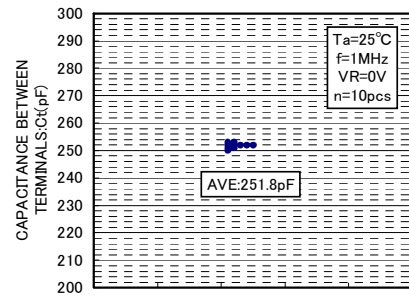
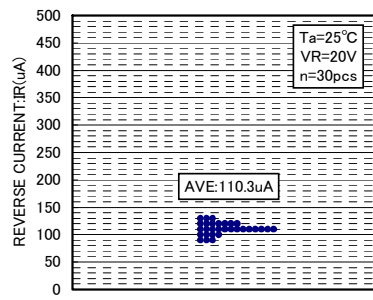
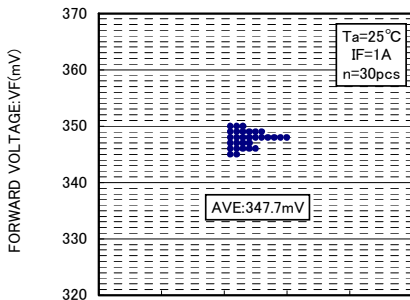
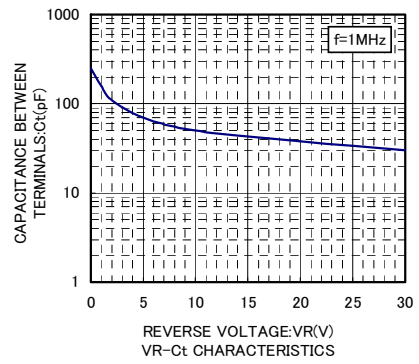
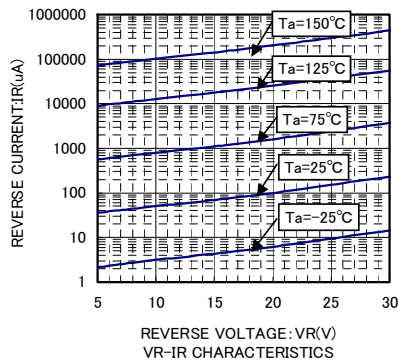
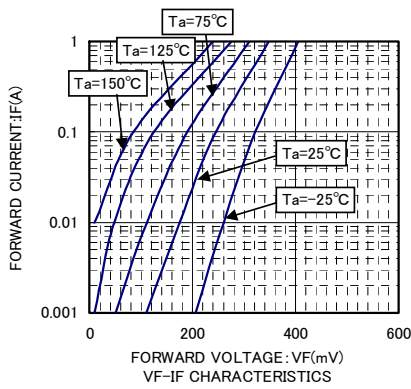
●Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward current	$I_O$	1	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 characteristic ( $T_a=25^\circ\text{C}$ )

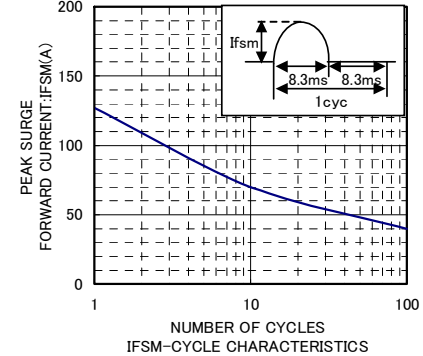
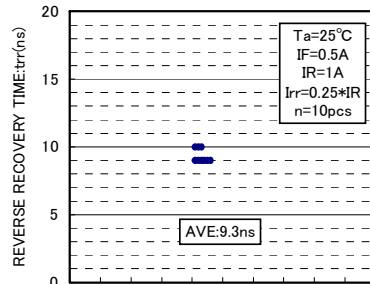
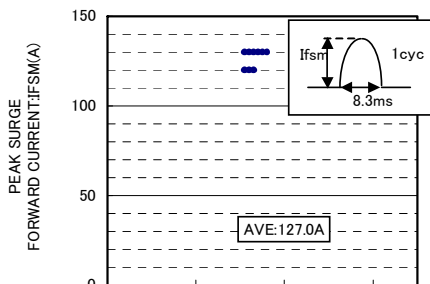
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.40	V	$I_F=1.0\text{A}$
Reverse current	$I_R$	-	-	1	mA	$V_R=20\text{V}$



VF DISPERSION MAP

IR DISPERSION MAP

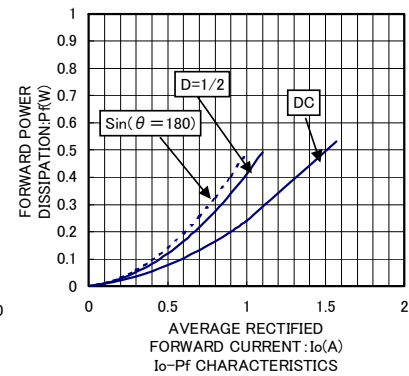
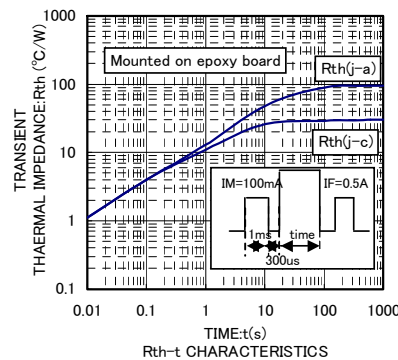
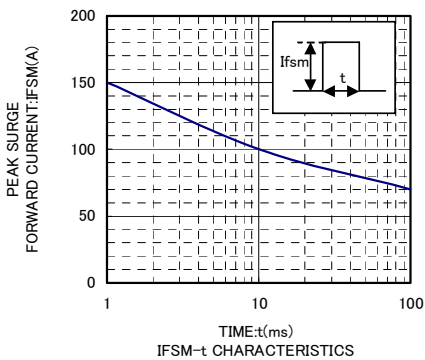
Ct DISPERSION MAP

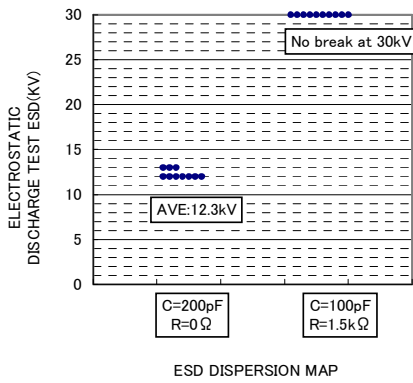
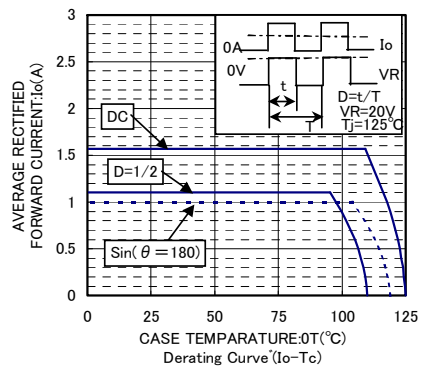
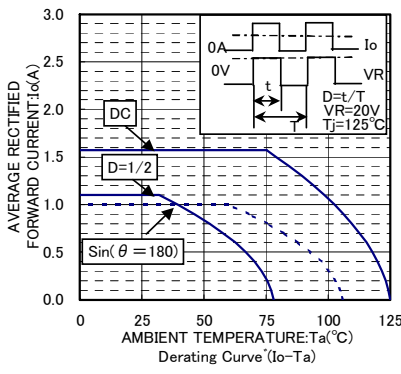
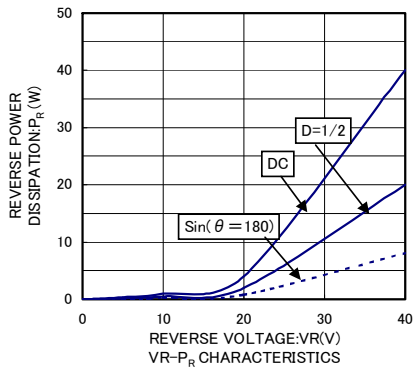


IFSM DISPERSION MAP

trr DISPERSION MAP

IFSM-CYCLE CHARACTERISTICS





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