

# Schottky barrier diode

## RB160L-40

●Applications

General rectification

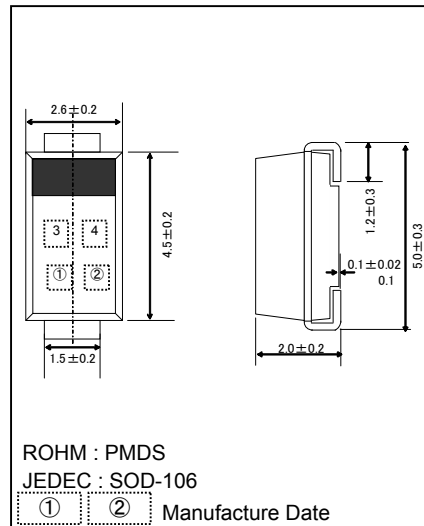
●Features

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

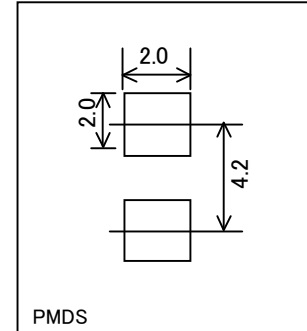
●Construction

Silicon epitaxial planer

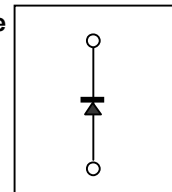
●Dimensions (Unit : mm)



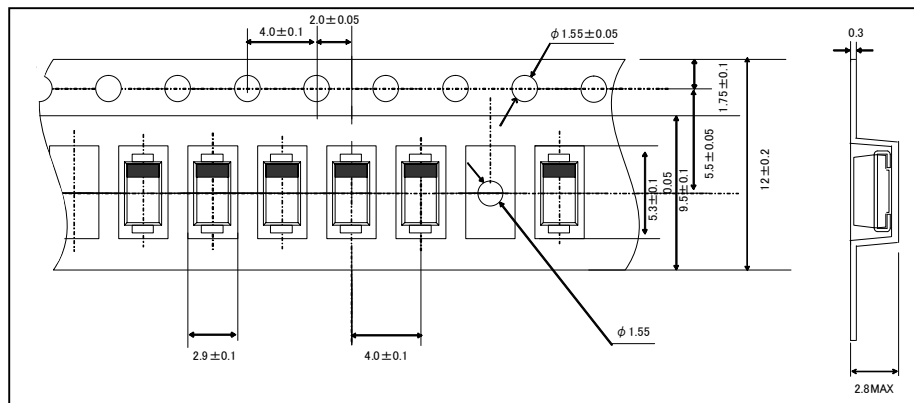
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

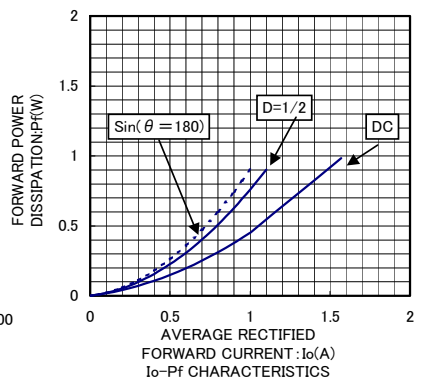
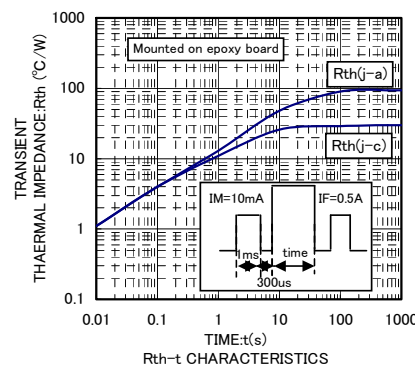
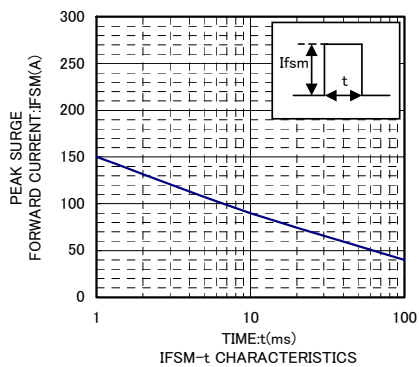
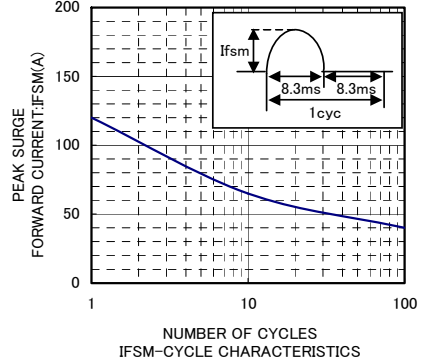
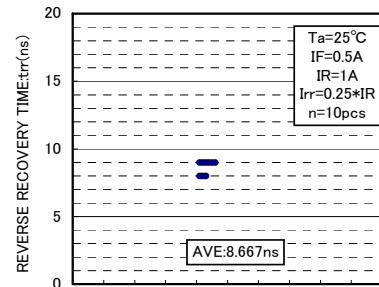
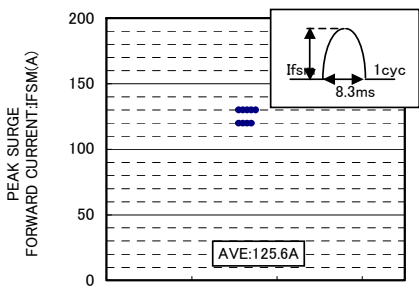
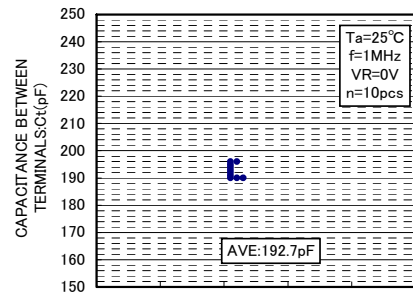
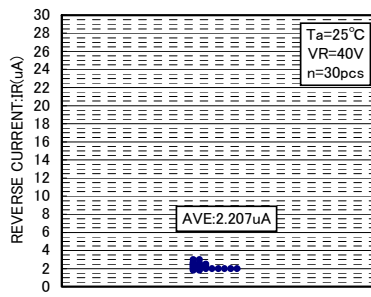
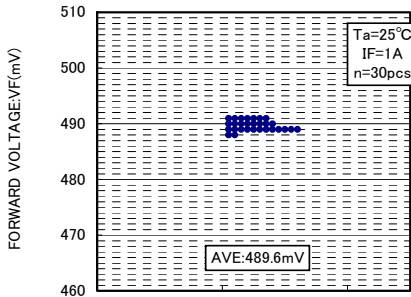
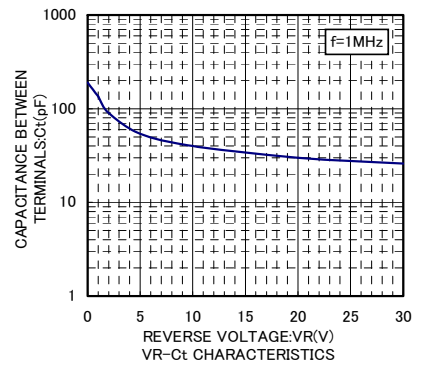
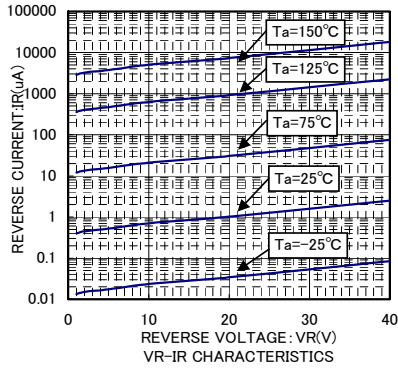
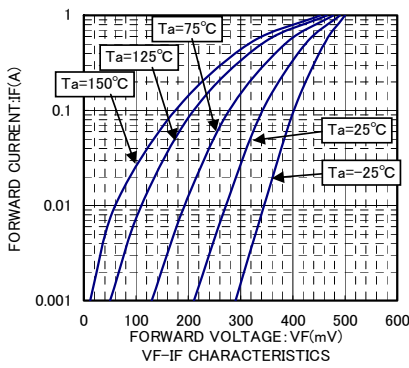
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	1	A
Forward current surge peak (60Hz / 1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

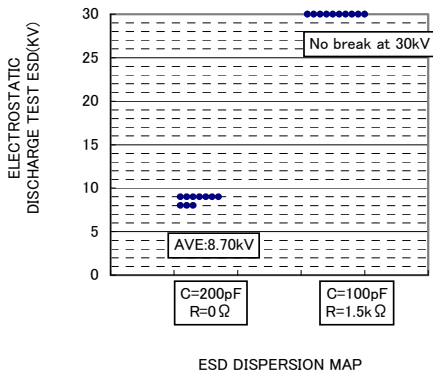
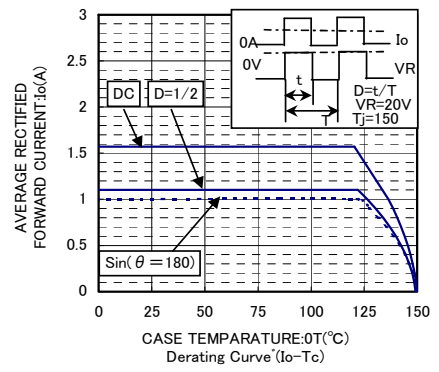
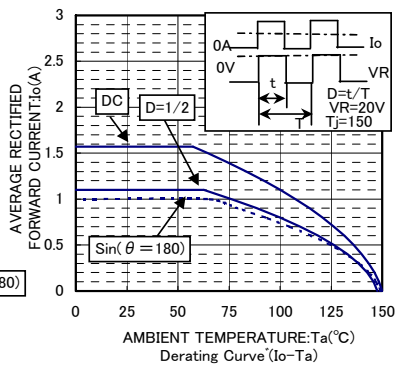
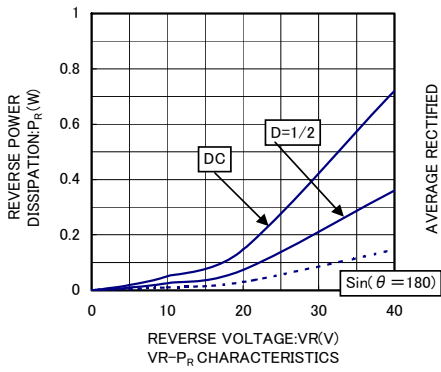
(\*1) $T_c=90^\circ\text{C}$  max Mounted on epoxy board. 180° Half sine wave

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.55	V	$I_F=1.0\text{A}$
Reverse current	$I_{R1}$	-	-	10	$\mu\text{A}$	$V_R=6\text{V}$
	$I_{R2}$	-	-	100	$\mu\text{A}$	$V_R=40\text{V}$

●Electrical characteristic curves





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