

# Schottky barrier diode

**RB060L-40**

•Applications

Rectifying small power

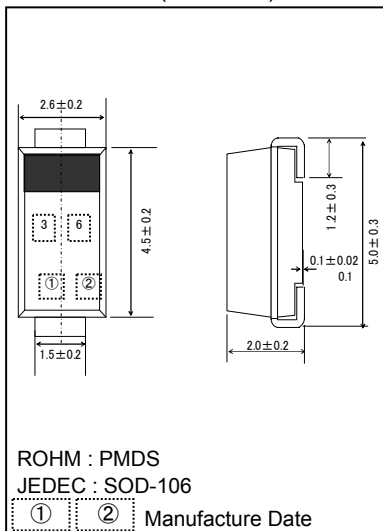
•Features

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

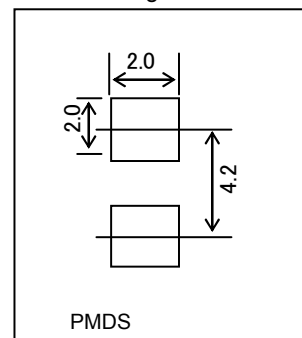
•Construction

Silicon epitaxial planar

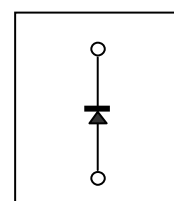
•Dimensions (Unit : mm)



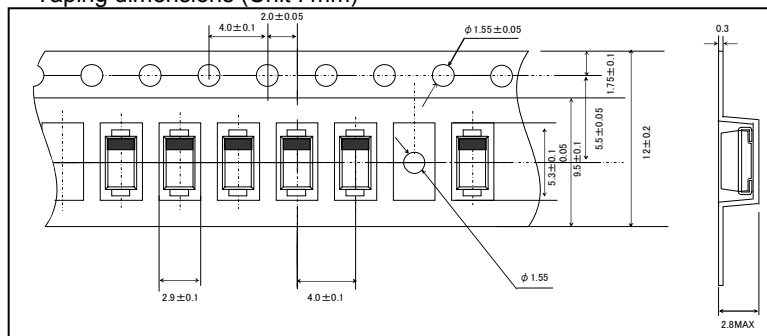
•Land size figure



•Structure



•Taping dimensions (Unit : mm)



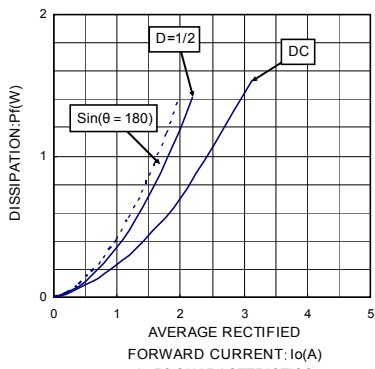
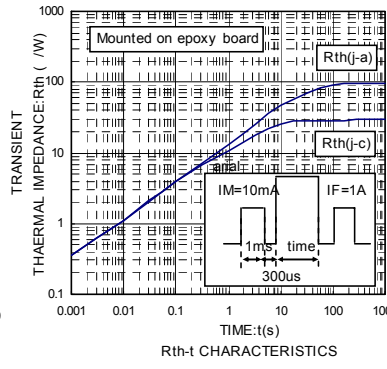
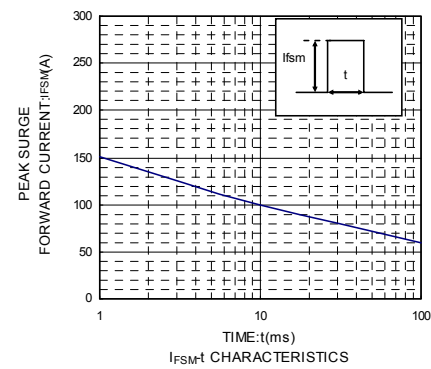
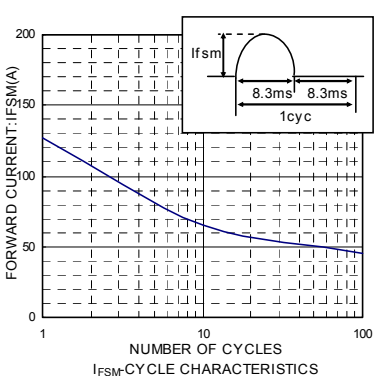
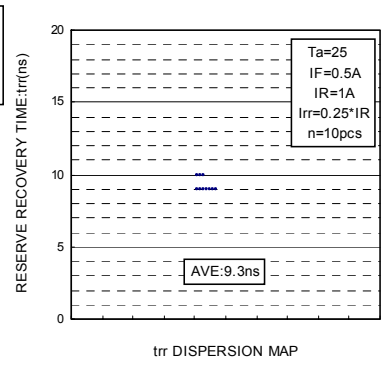
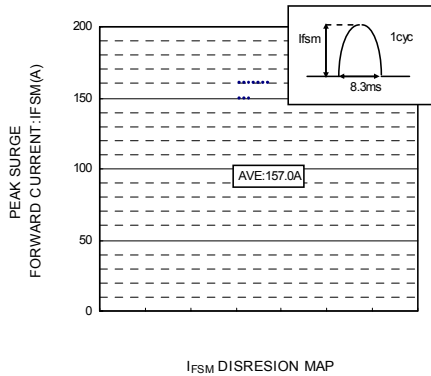
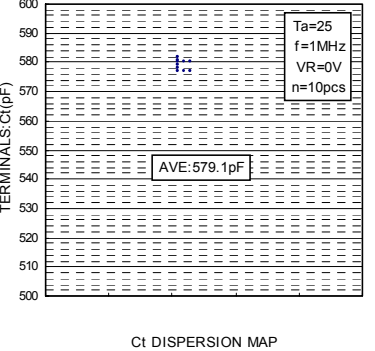
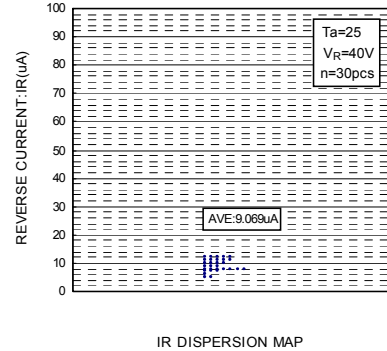
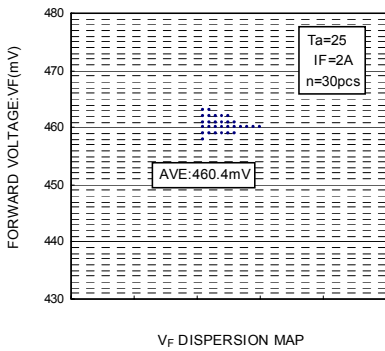
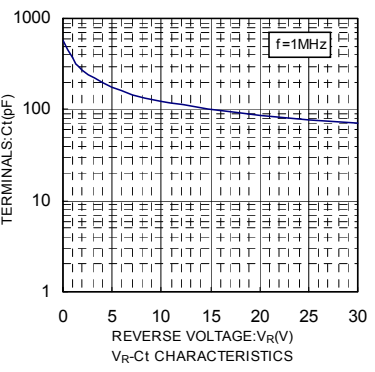
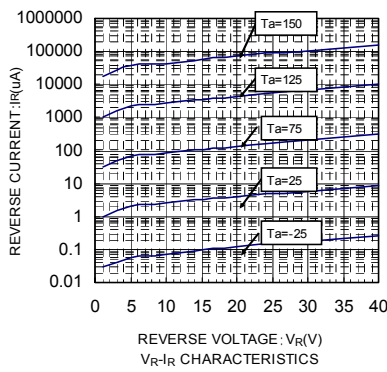
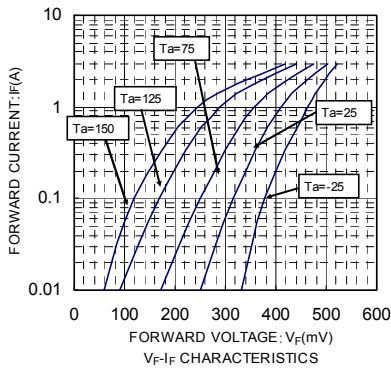
•Absolute maximum ratings (Ta=25°C)

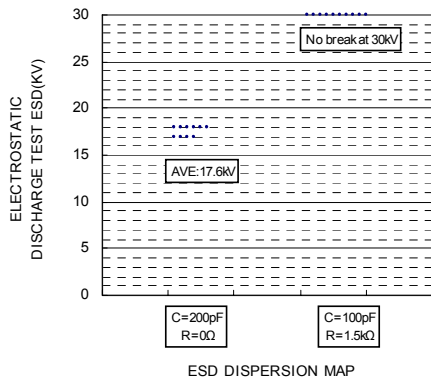
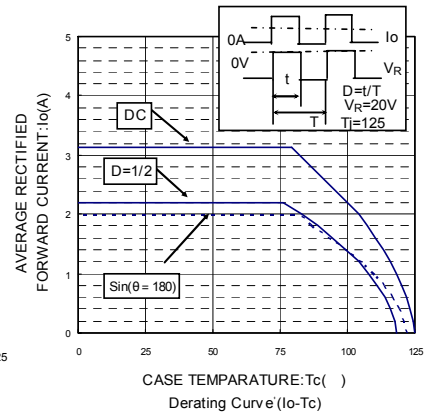
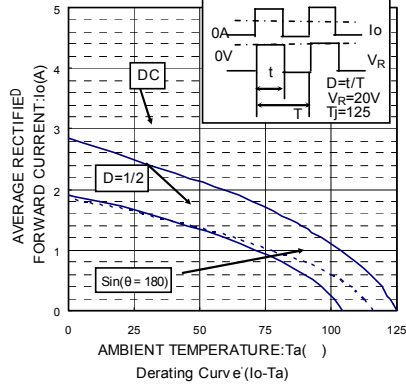
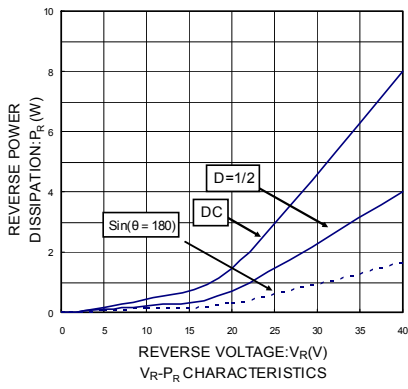
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	2	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

(\*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	$I_F=2.0A$
	$V_{F2}$	-	-	0.45	V	$I_F=1.0A$
Reverse current	$I_R$	-	-	1	mA	$V_R=40V$
Thermal impedance	$\theta_{j-a}$	-	-	90	°C/W	Mounting on alumina board
	$\theta_{j-a}$	-	-	120		Mounted on epoxy board





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