

# Schottky Barrier Diode

## RSX301L-30

●Applications

General rectification

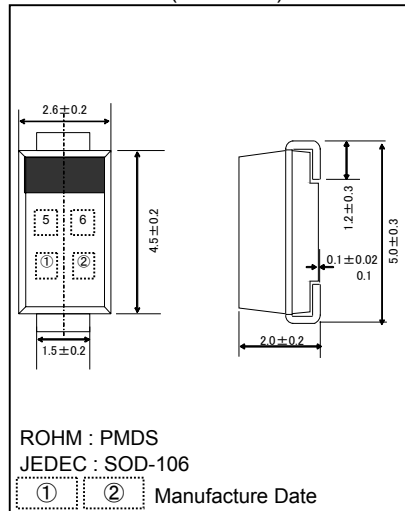
●Features

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

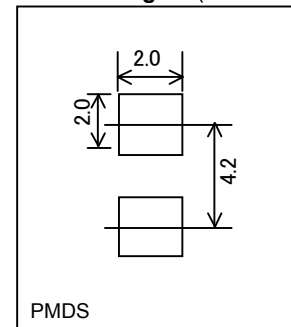
●Construction

Silicon epitaxial planar

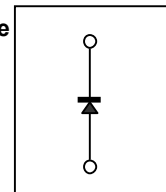
●Dimensions (Unit : mm)



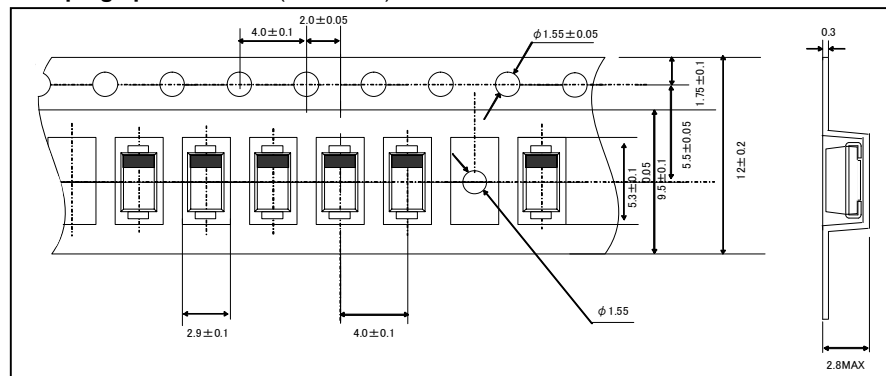
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



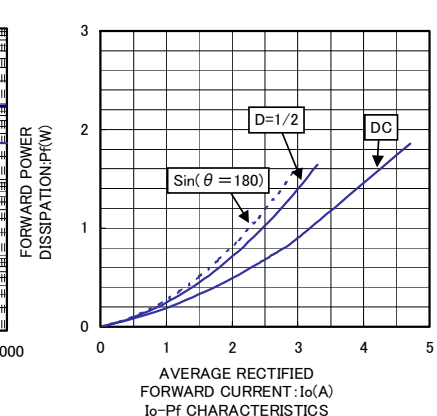
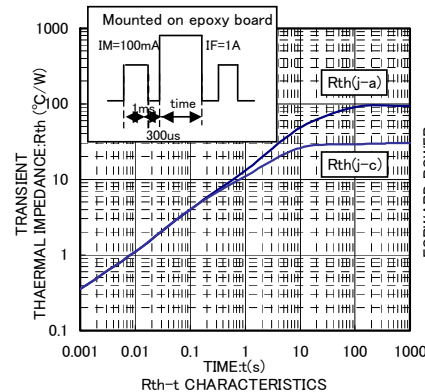
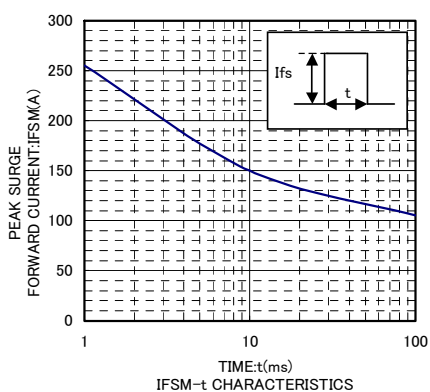
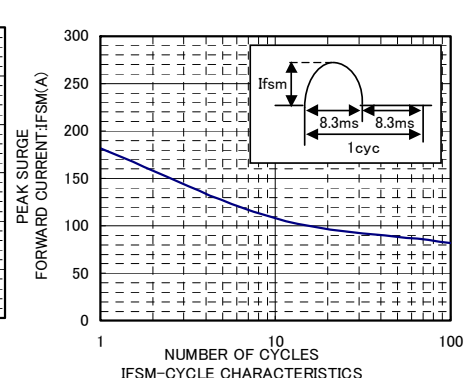
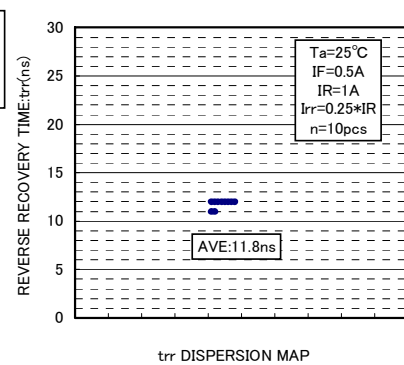
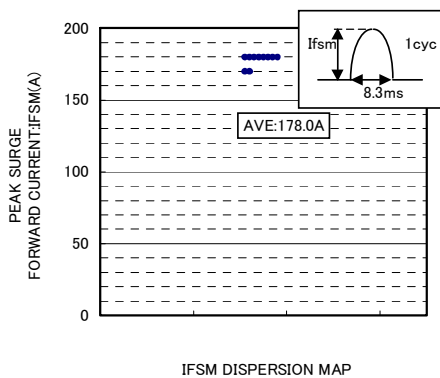
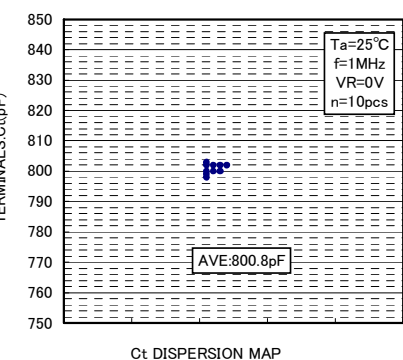
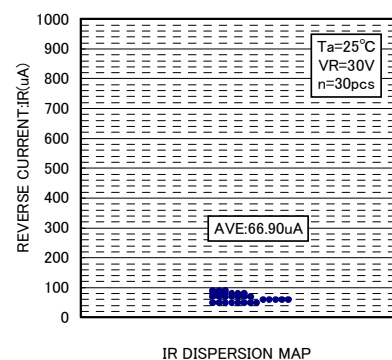
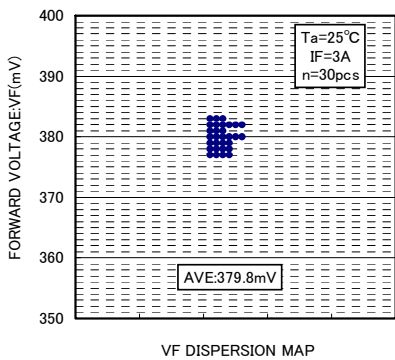
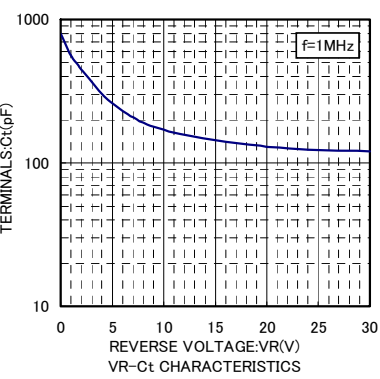
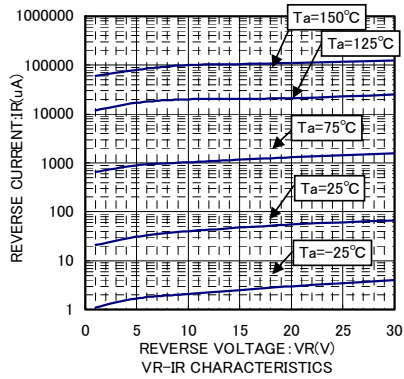
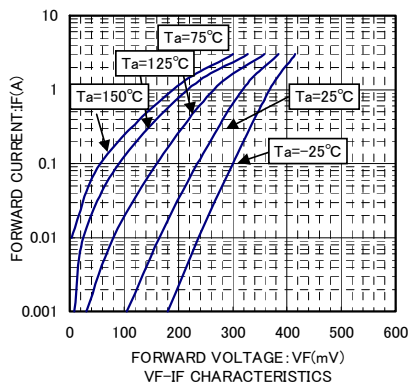
●Absolute maximum ratings (Ta=25°C)

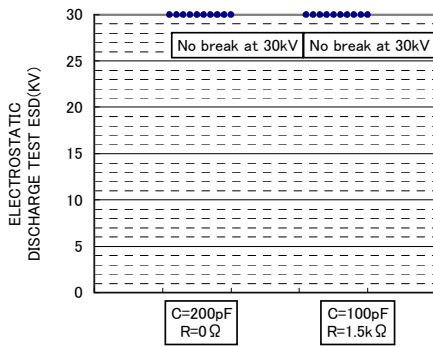
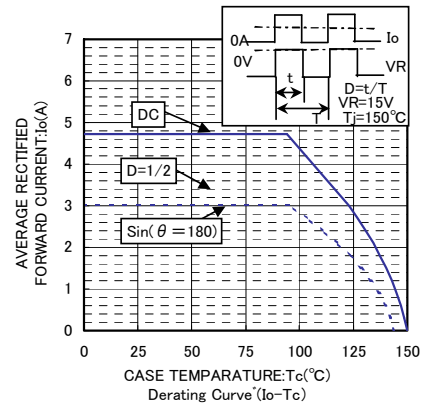
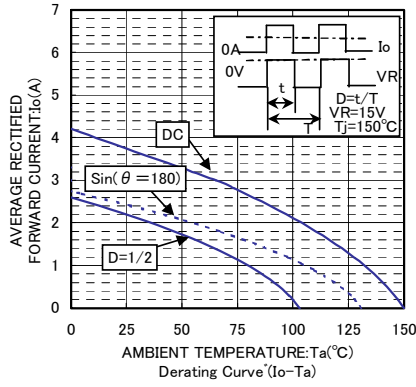
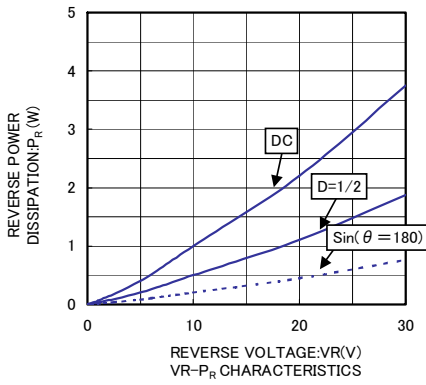
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	3	A
Forward current surge peak (60Hz·1cyc)(*1)	$I_{FSM}$	70	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

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

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.42	V	$I_F=3.0\text{A}$
Reverse current	$I_{R1}$	-	-	90	$\mu\text{A}$	$V_R=15\text{V}$
	$I_{R2}$	-	-	200	$\mu\text{A}$	$V_R=30\text{V}$





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