

# Schottky barrier diode

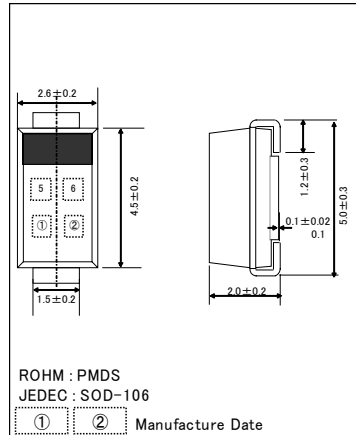
## RSX301L-30

●Applications  
General rectification

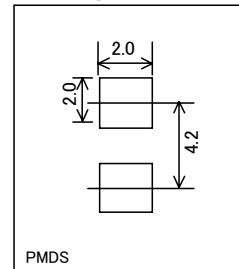
●Features  
1) Small power mold type. (PMDS)  
2) Low  $V_F$ , Low  $I_R$ .  
3) High reliability.

●Construction  
Silicon epitaxial planar

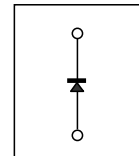
●Dimensions (Unit : mm)



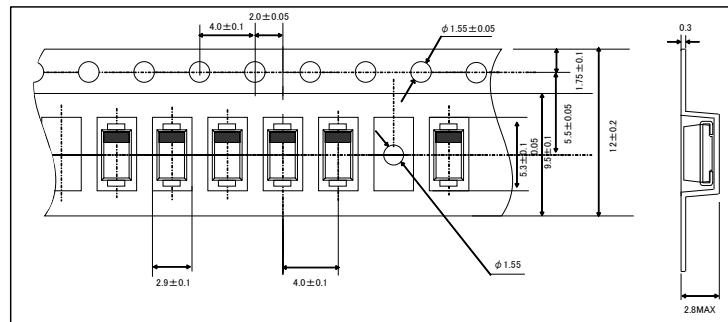
● Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



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

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

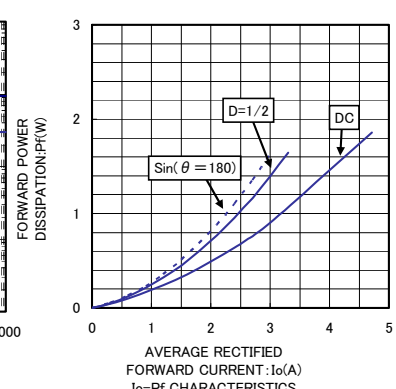
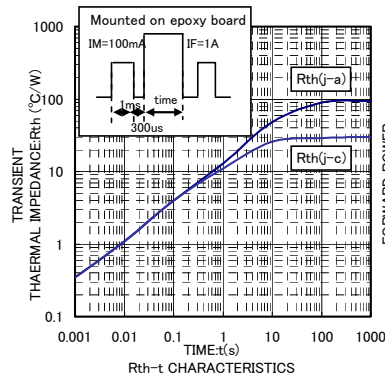
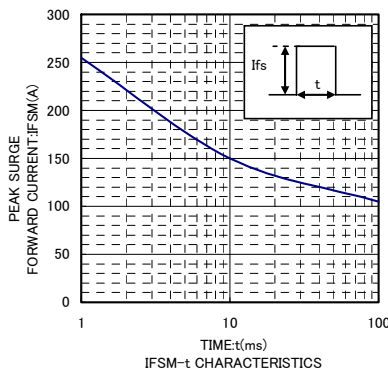
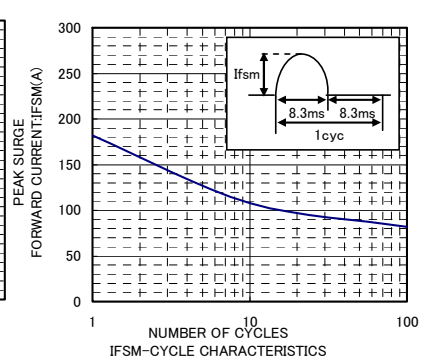
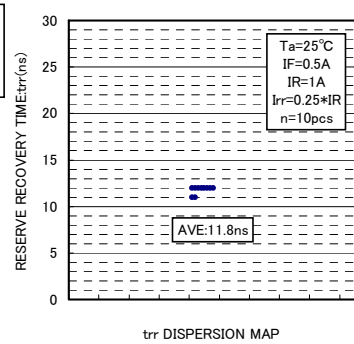
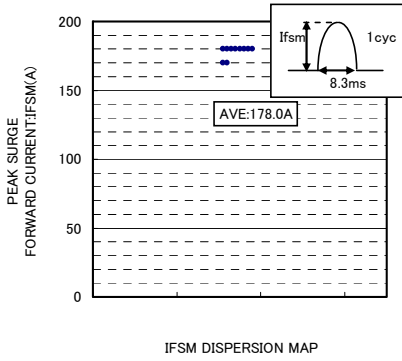
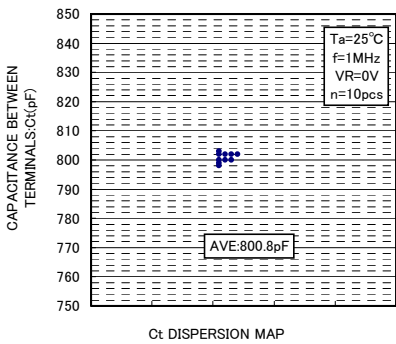
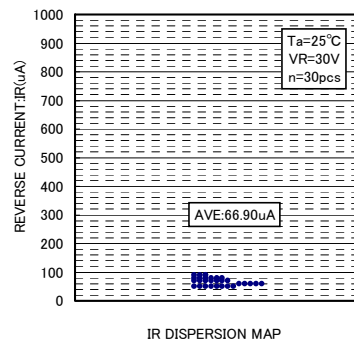
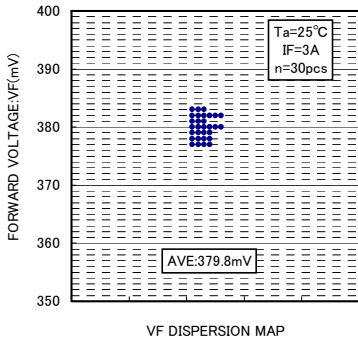
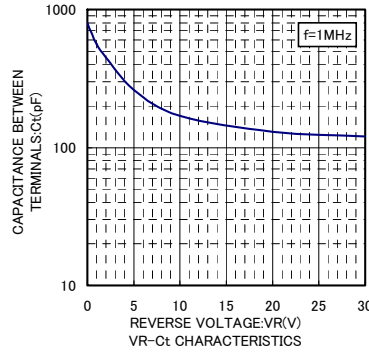
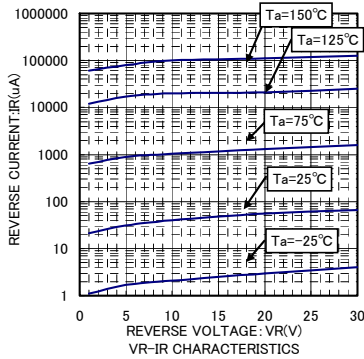
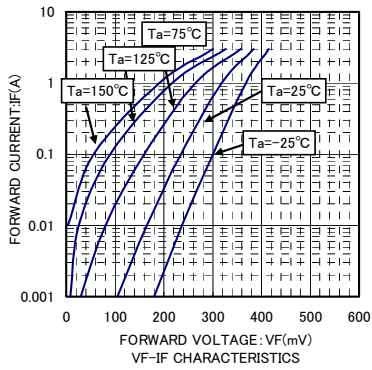
(\*1)  $T_c=90^\circ\text{Cmax}$  Mounted on epoxy board. 180°Half sine wave

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

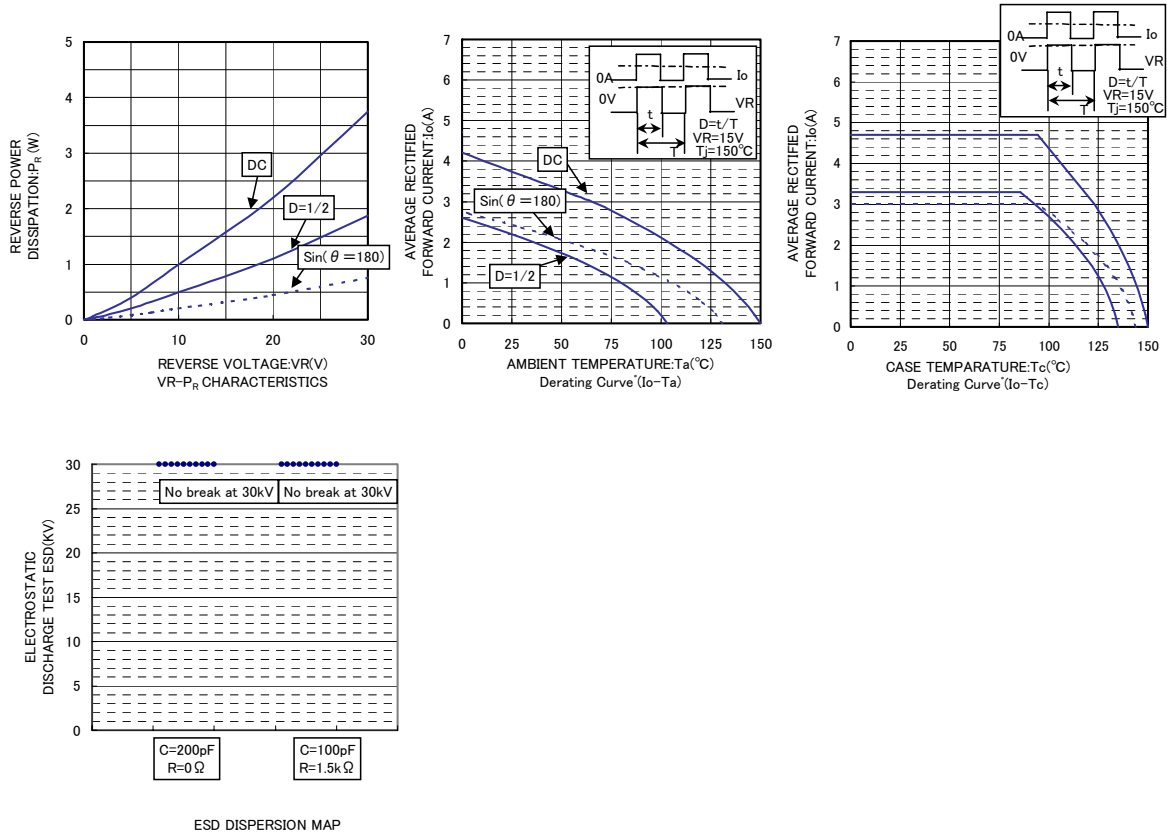
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.42	V	$I_F=3.0\text{A}$
Reverse current	$I_{R1}$	-	-	90	$\mu\text{A}$	$V_R=15\text{V}$
	$I_{R2}$	-	-	200	$\mu\text{A}$	$V_R=30\text{V}$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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