

RSX301L-30

Diodes

Schottky barrier diode

RSX301L-30

●Applications

General rectification

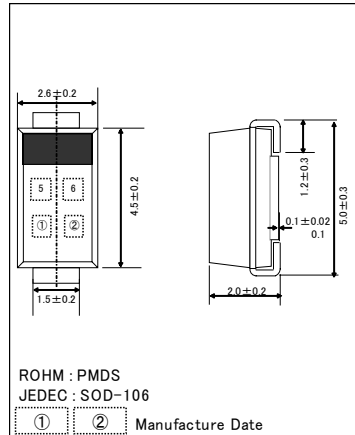
●Features

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

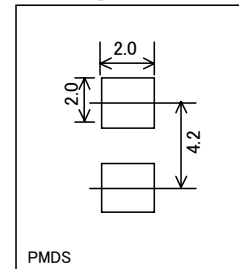
●Construction

Silicon epitaxial planar

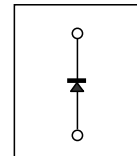
●Dimensions (Unit : mm)



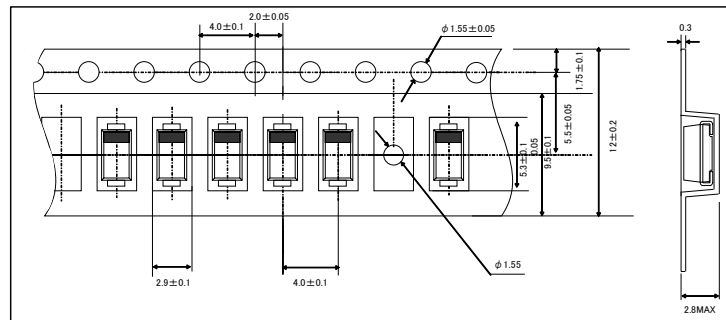
●Land size figure (Unit : mm)



●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	$^\circ\text{C}$

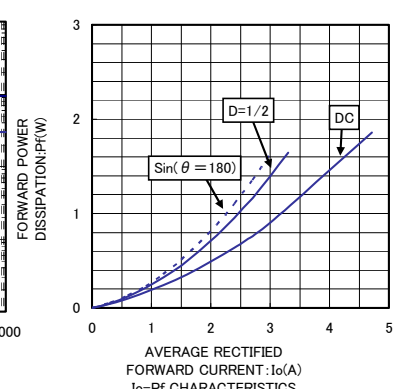
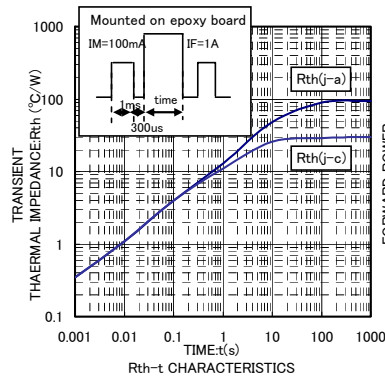
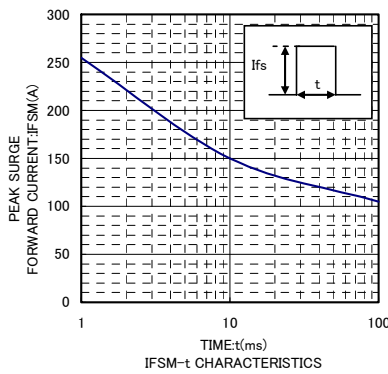
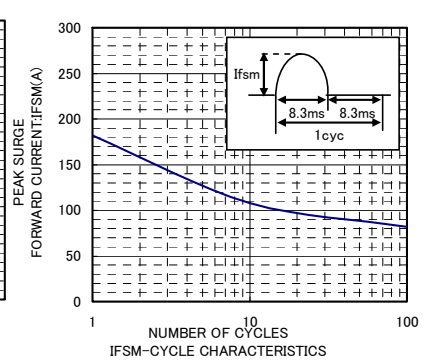
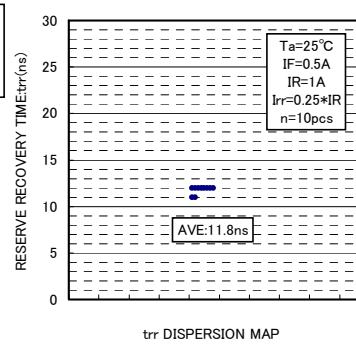
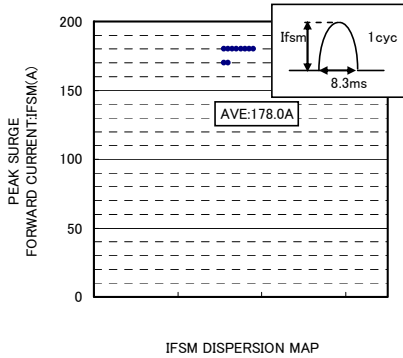
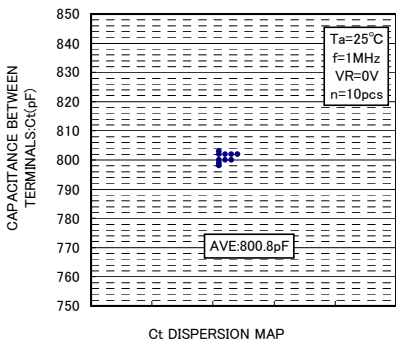
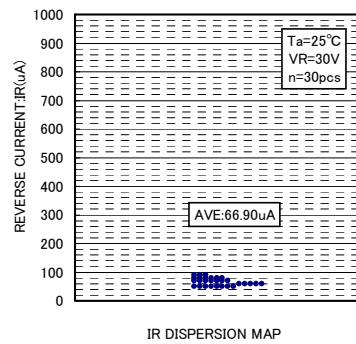
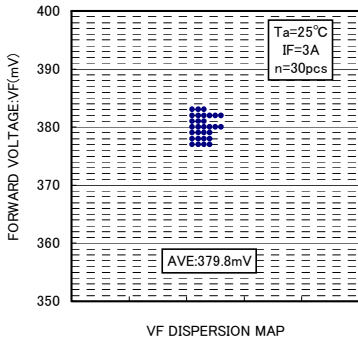
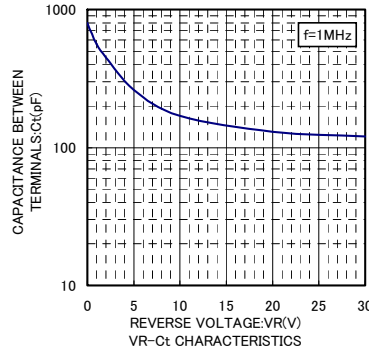
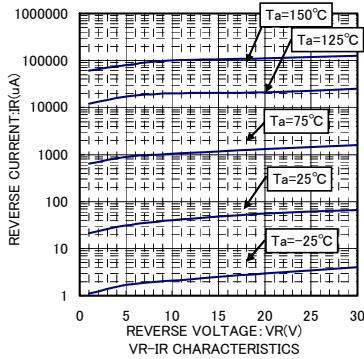
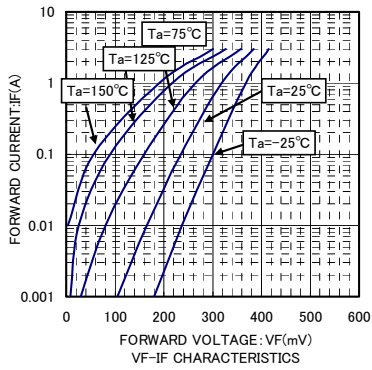
(*1) $T_c=90^\circ\text{Cmax}$ Mounted on epoxy board. 180°Half sine wave●Electrical characteristics ($T_a=25^\circ\text{C}$)

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	μA	$V_R=15\text{V}$
	I_{R2}	-	-	200	μA	$V_R=30\text{V}$

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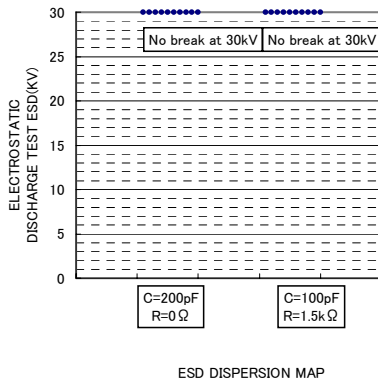
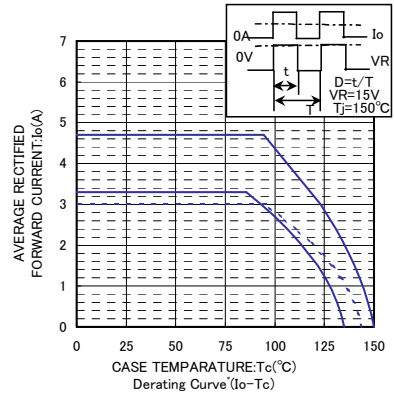
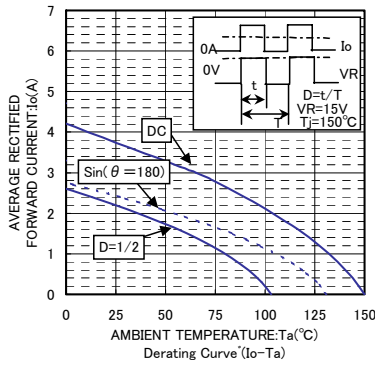
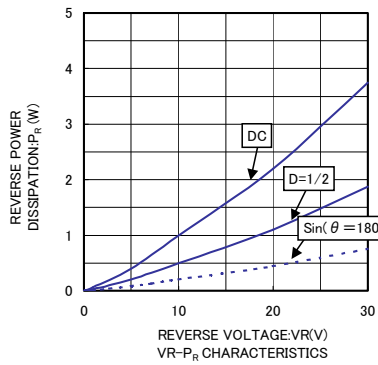
Diodes

●Electrical characteristic curves (Ta=25°C)



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Diodes



Appendix

Notes

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