

Schottky barrier diode

RSX101VA-30

●Applications

General rectification

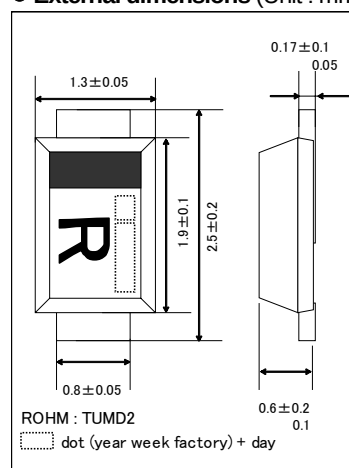
●Features

- 1) Small mold type. (TUMD2)
- 2) Low V_F
- 3) High reliability.

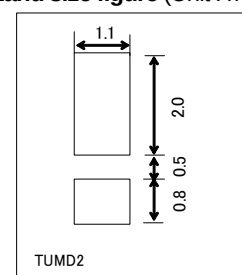
●Construction

Silicon epitaxial planar

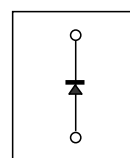
● External dimensions (Unit : mm)



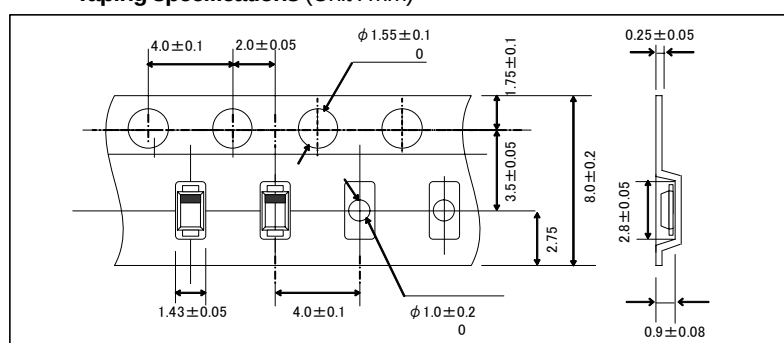
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

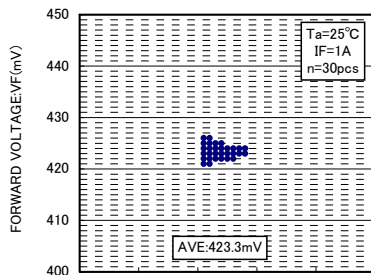
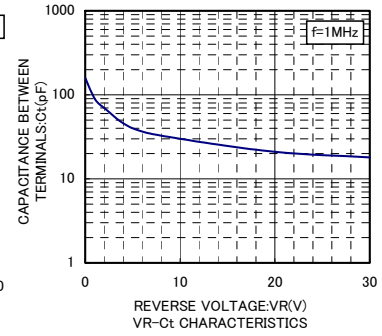
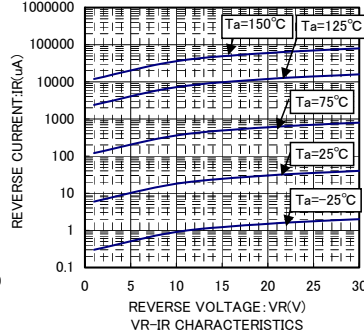
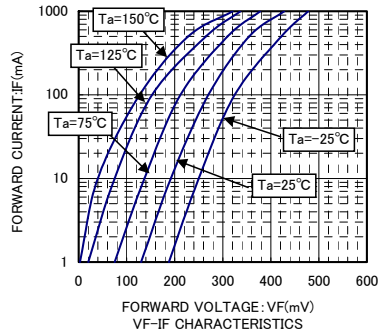
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	1	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	5	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

●Electrical characteristics (Ta=25°C)

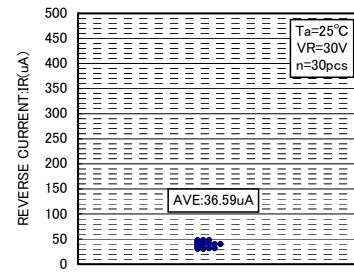
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.43	0.47	V	$I_F=1A$
Reverse current	I_{R1}	-	15	40	μA	$V_R=5V$
	I_{R2}	-	40	200	μA	$V_R=30V$

Diodes

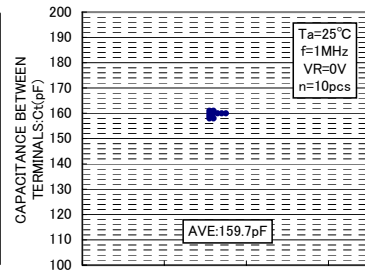
●Electrical characteristic curves (Ta=25°C)



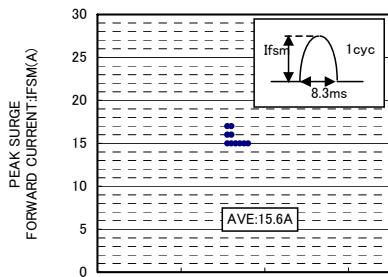
VF DISPERSION MAP



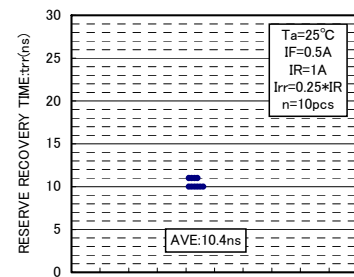
IR DISPERSION MAP



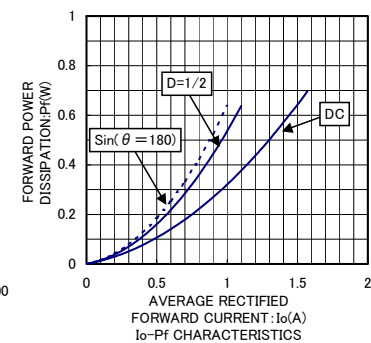
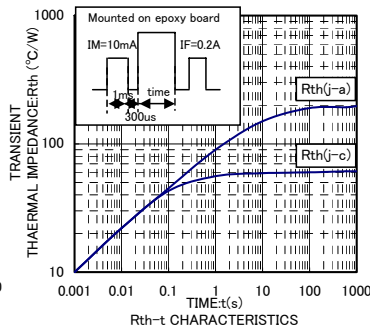
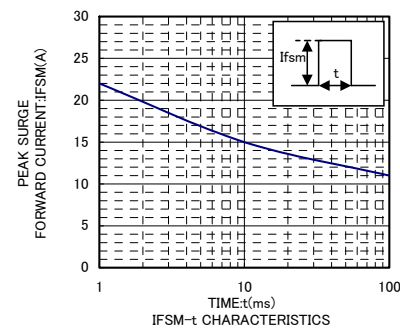
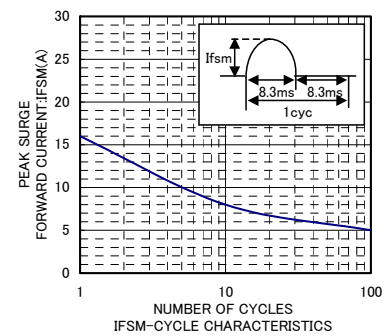
Ct DISPERSION MAP



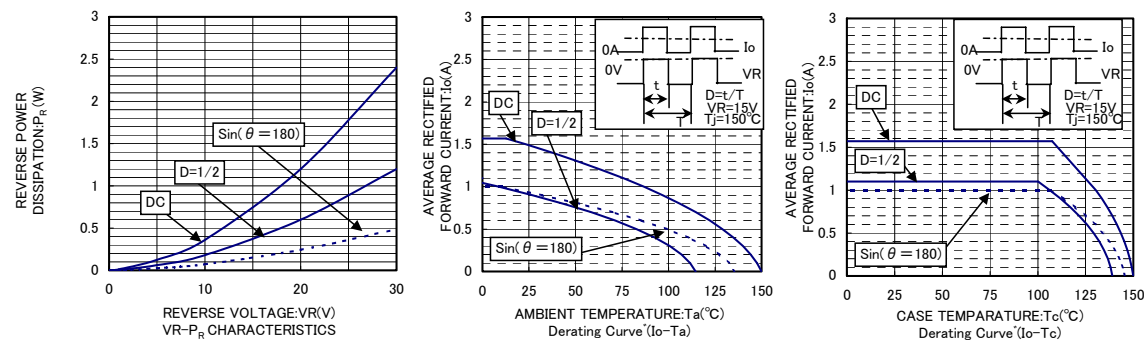
IFSM DISPERSION MAP



trr DISPERSION MAP



Diodes



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