

Schottky barrier diode

RB161VA-20

●Applications

General rectification

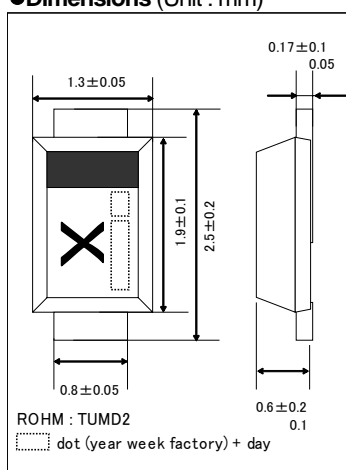
●Features

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

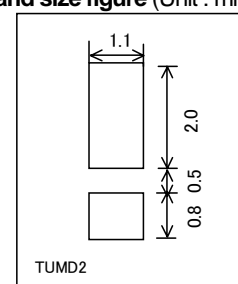
●Structure

Silicon epitaxial planar

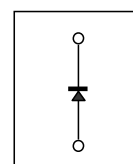
●Dimensions (Unit : mm)



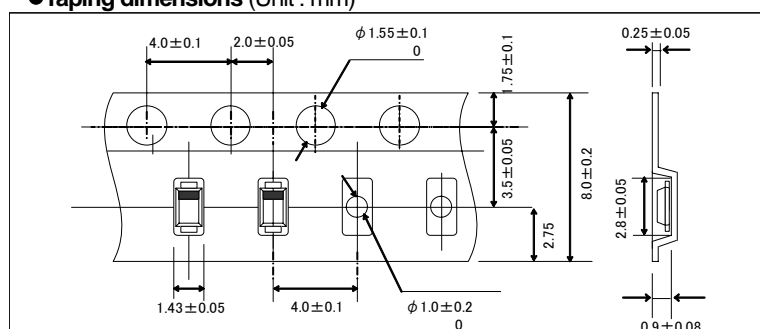
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

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

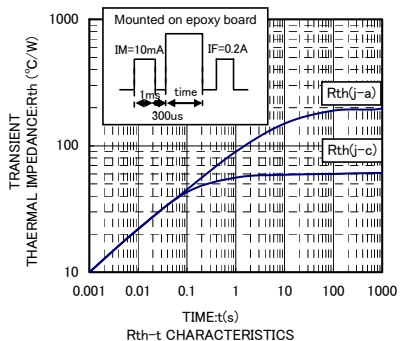
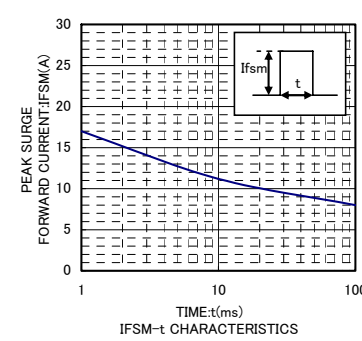
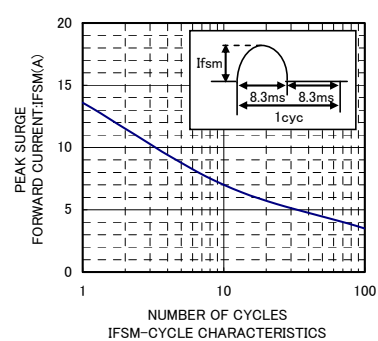
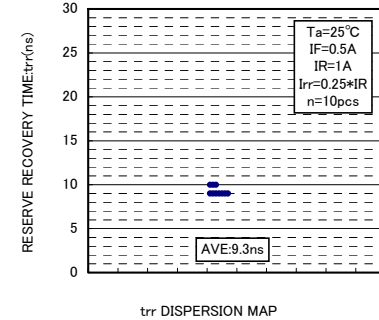
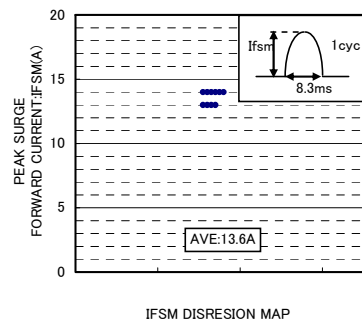
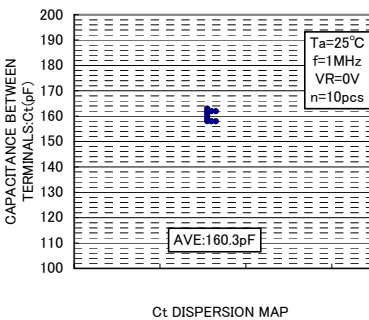
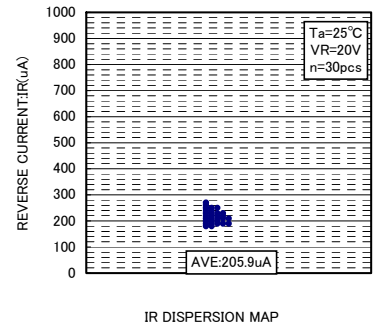
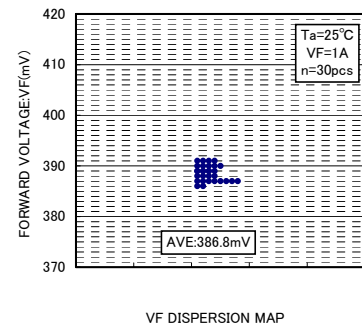
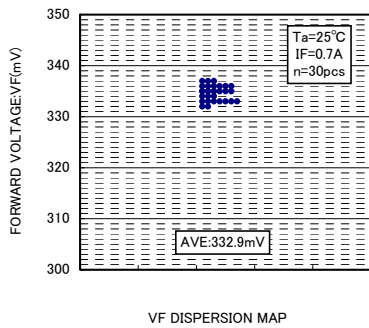
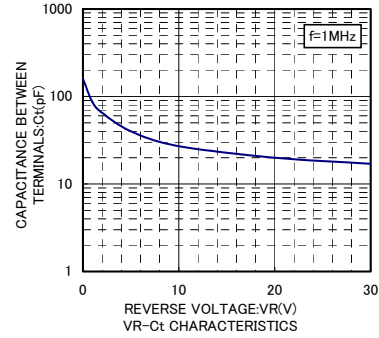
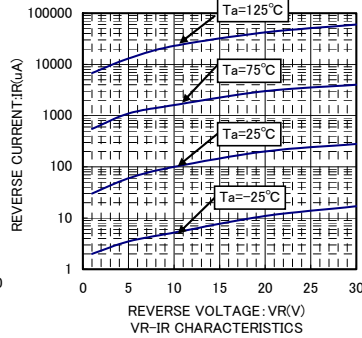
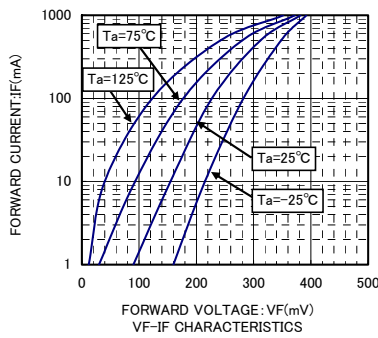
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	I_o	1	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	5	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

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

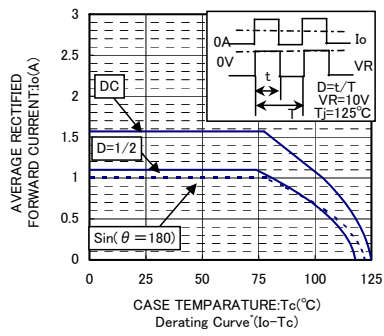
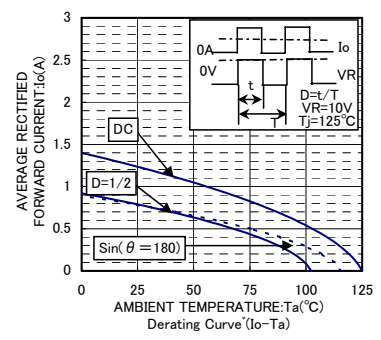
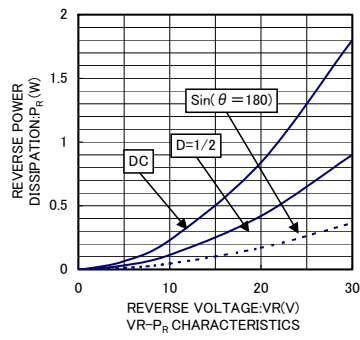
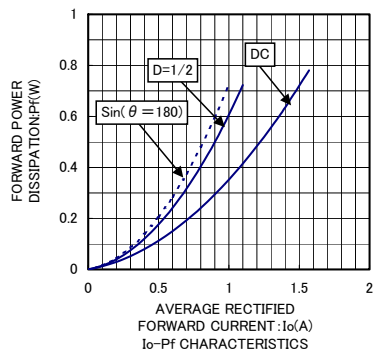
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.33	0.37	V	$I_F=700\text{mA}$
	V_{F2}	-	0.38	0.42	μA	$I_F=1\text{A}$
Reverse current	I_R	-	0.2	1	mA	$V_R=20\text{V}$

Diodes

●Electrical characteristic curves



Diodes



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