

Schottky Barrier Diode

RB161VA-20

●Applications

General rectification

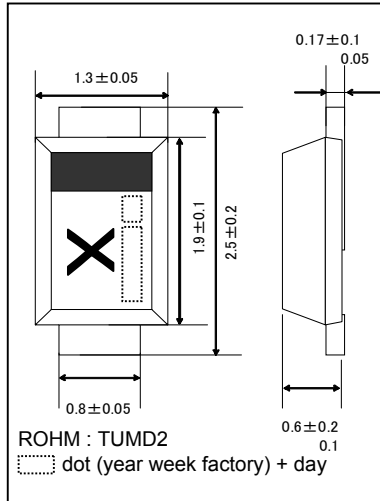
●Features

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

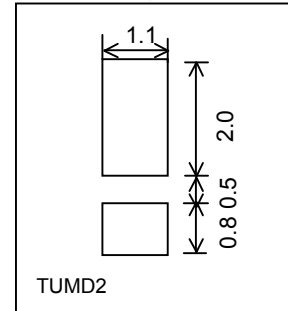
●Construction

Silicon epitaxial planar

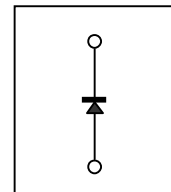
●Dimensions (Unit : mm)



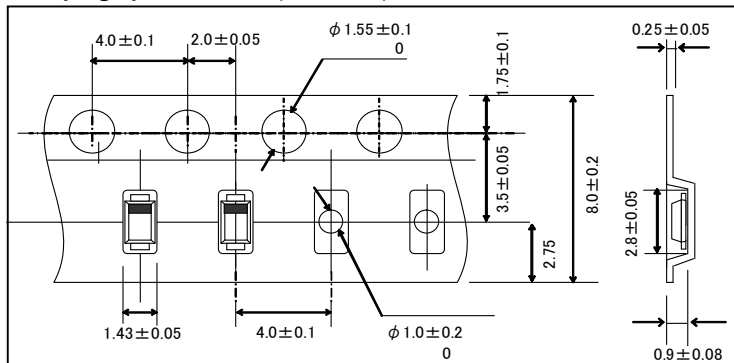
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

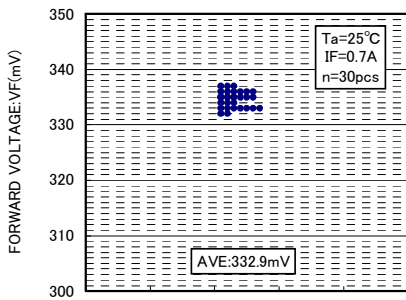
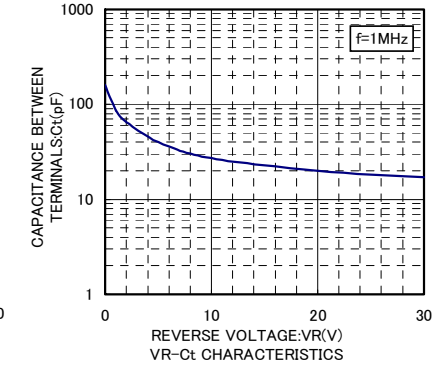
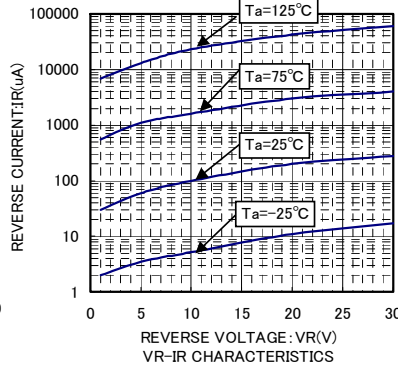
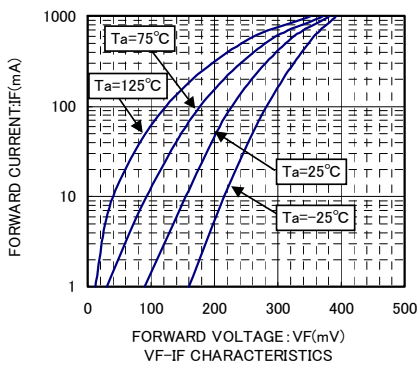


●Absolute maximum ratings (Ta=25°C)

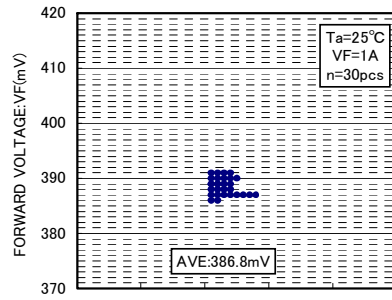
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	I_o	1	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	5	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

●Electrical characteristic (Ta=25°C)

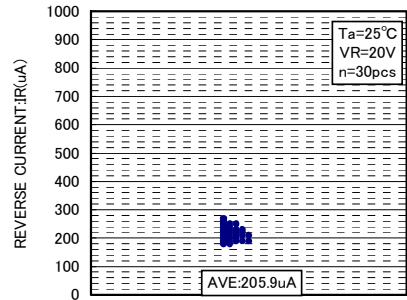
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.33	0.37	V	$I_F=700mA$
	V_{F2}	-	0.38	0.42	μA	$I_F=1A$
Reverse current	I_R	-	0.2	1	mA	$V_R=20V$



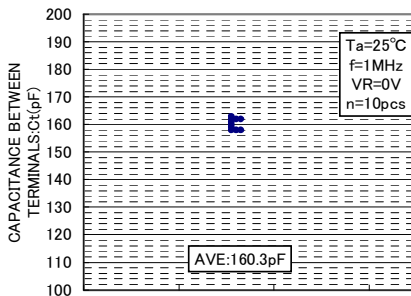
VF DISPERSION MAP



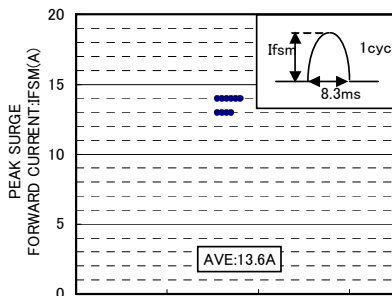
VF DISPERSION MAP



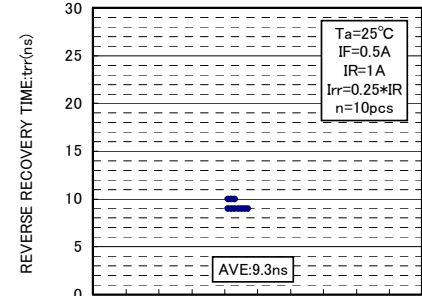
IR DISPERSION MAP



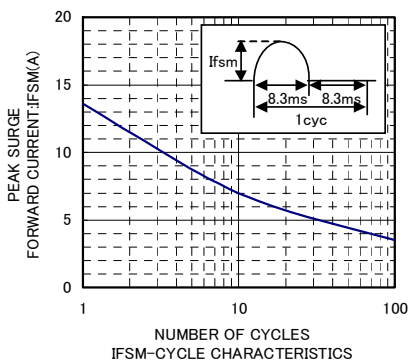
Ct DISPERSION MAP



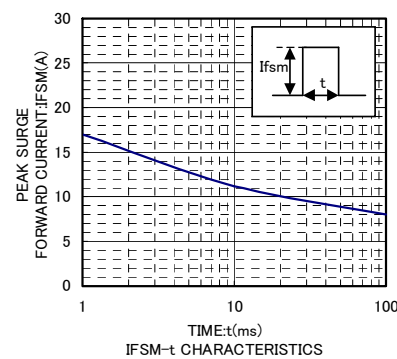
IFSM DISERSION MAP



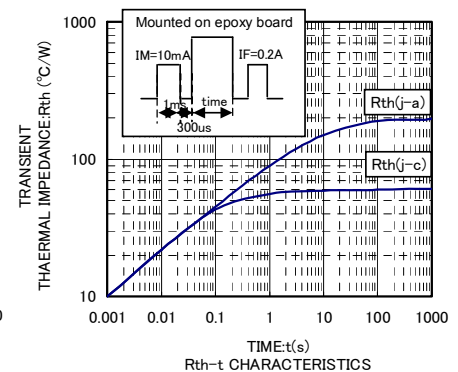
trr DISPERSION MAP



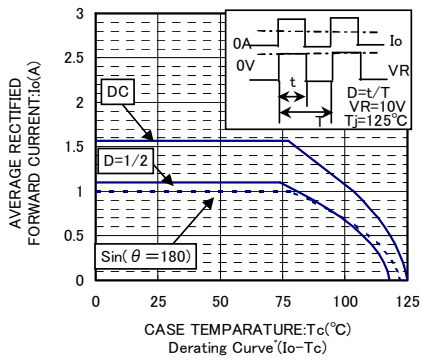
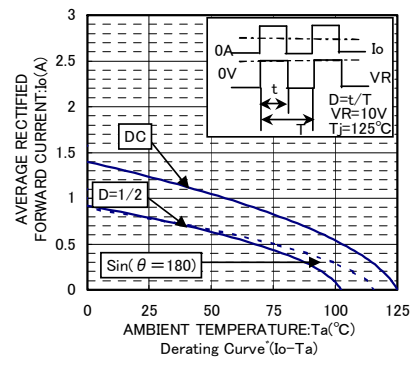
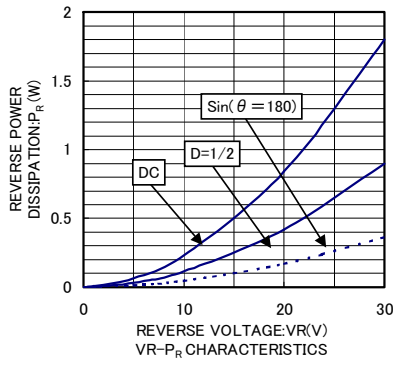
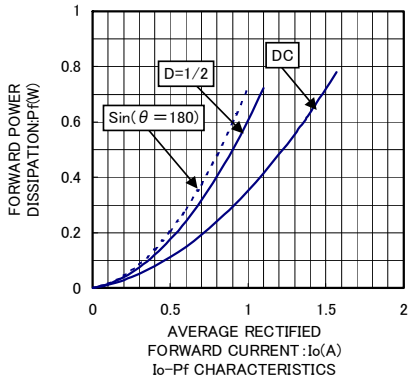
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Notes

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