

Schottky barrier Diode

RB551V-30

●Applications

High frequency rectification

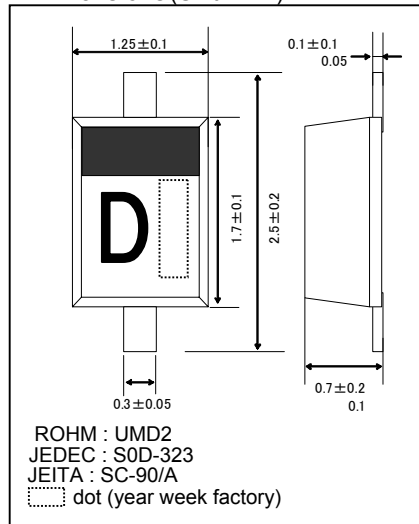
●Features

- 1) Small mold type. (UMD2)
- 2) Low V_F .
- 3) High reliability.

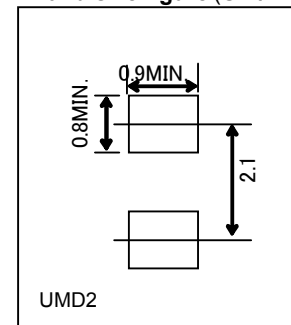
●Construction

Silicon epitaxial planar

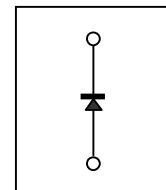
●Dimensions (Unit : mm)



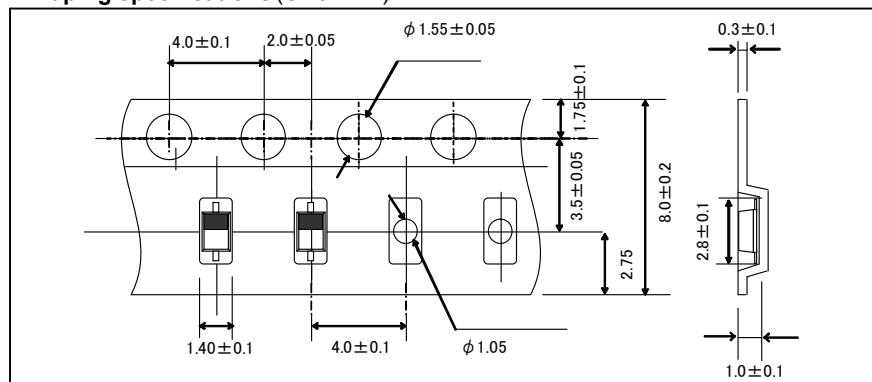
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

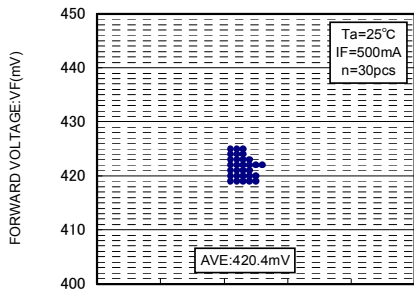
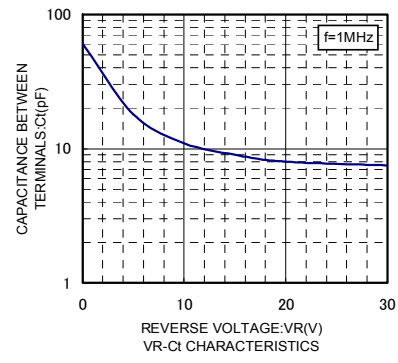
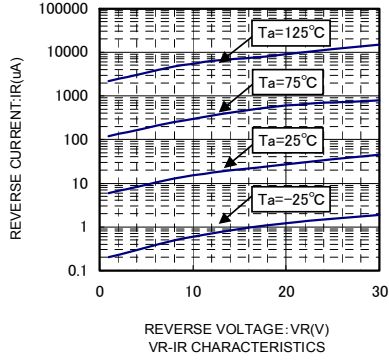
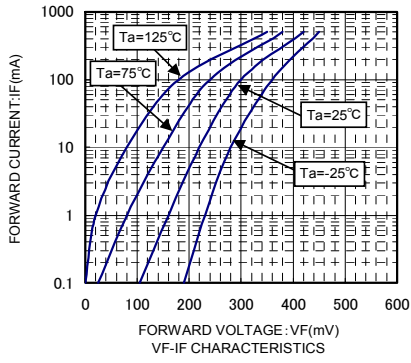


●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

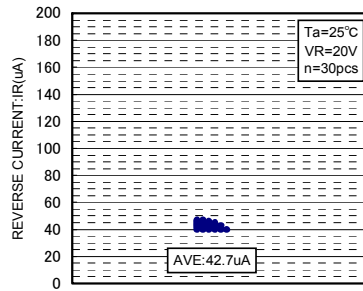
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	I_o	500	mA
Forward current surge peak (60Hz· 1cyc)	I_{FSM}	2	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

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

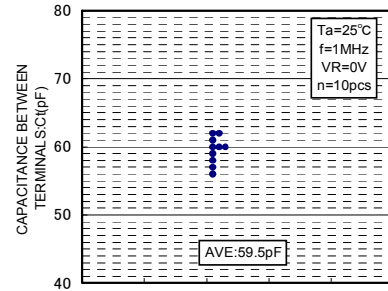
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.36	V	$I_F=100\text{mA}$
	V_{F2}	-	-	0.47	V	$I_F=500\text{mA}$
Reverse current	I_R	-	-	100	μA	$V_R=20\text{V}$



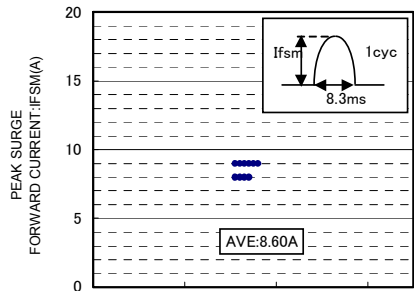
VF DISPERSION MAP



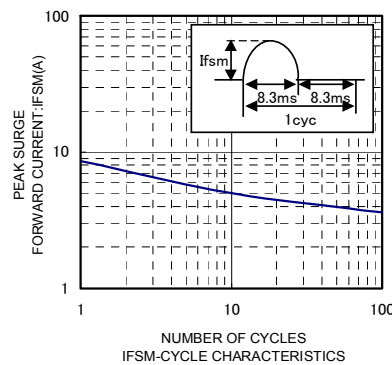
IR DISPERSION MAP



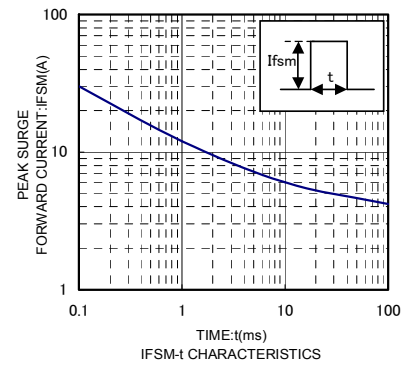
CI DISPERSION MAP



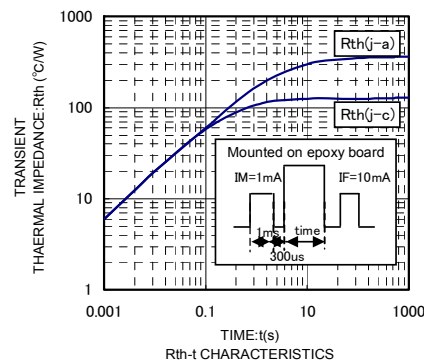
IFSM DISPERSION MAP



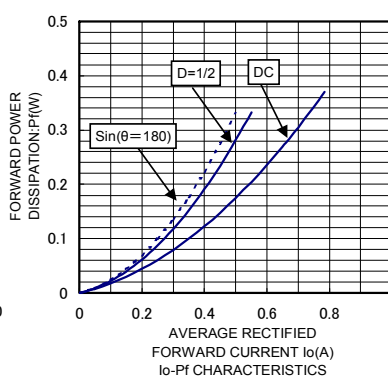
IFSM-CYCLE CHARACTERISTICS



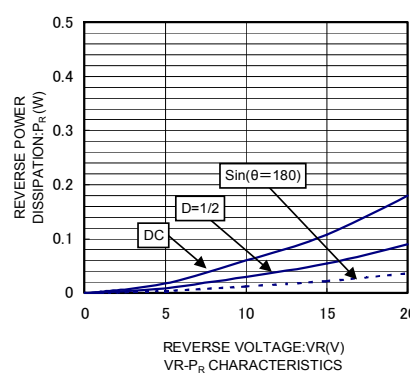
IFSM-t CHARACTERISTICS



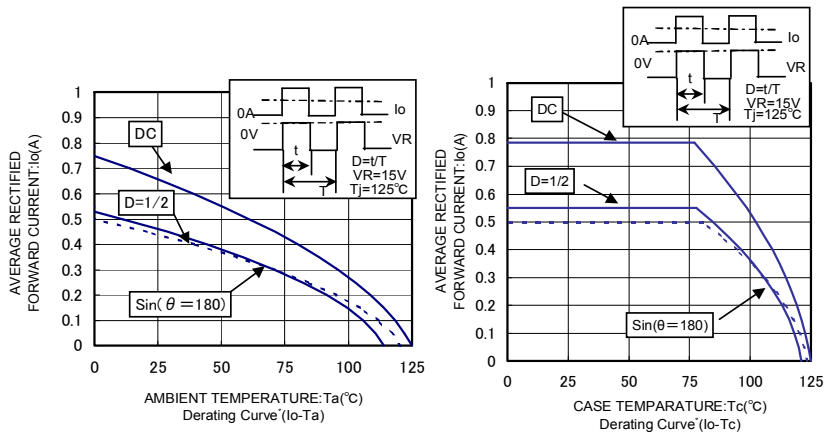
Rth-t CHARACTERISTICS



Io-PF CHARACTERISTICS



VR-Pr CHARACTERISTICS



Notes

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