

Schottky Barrier Diode

RB461F

●Applications

Low power rectification

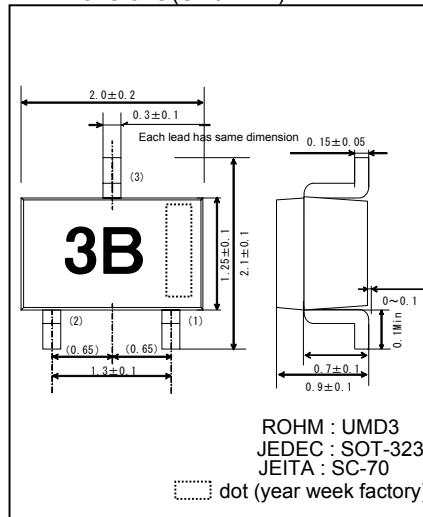
●Features

- 1) Small mold type. (UMD3)
- 2) Low V_F .
- 3) High reliability

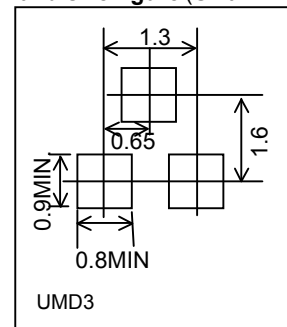
●Construction

Silicon epitaxial planer

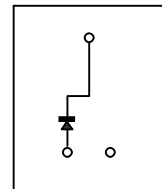
●Dimensions (Unit : mm)



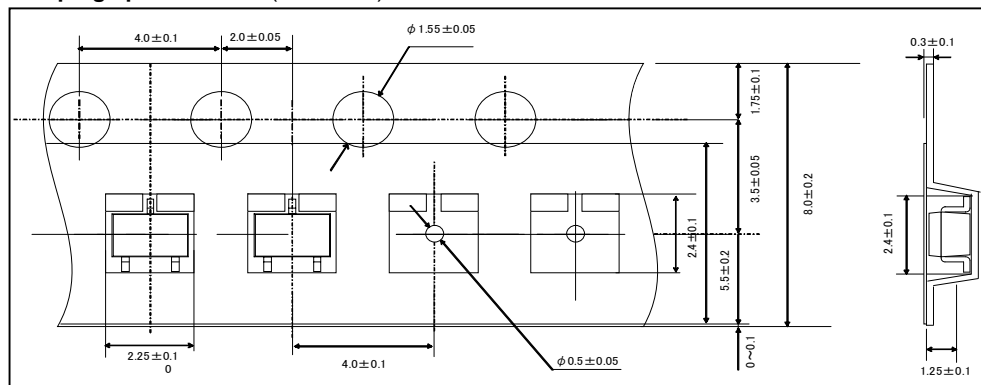
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

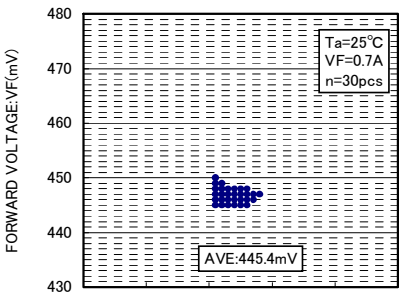
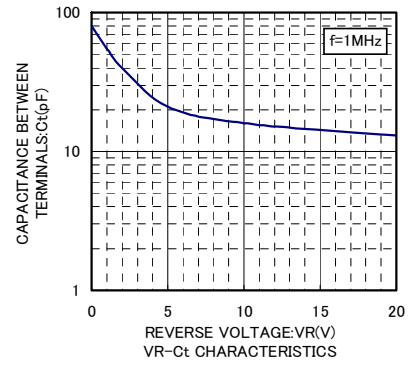
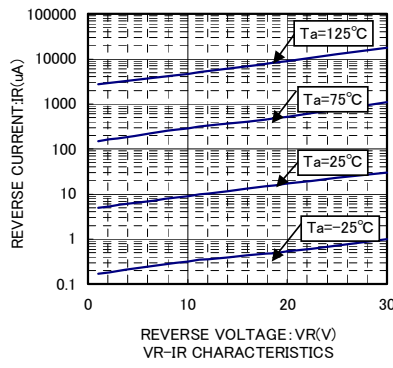
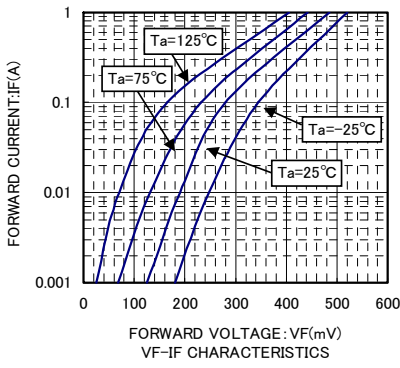


●Absolute maximum ratings (Ta=25°C)

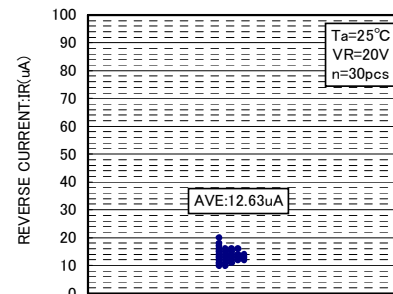
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	25	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	I_o	0.7	A
Forward current surge peak (60Hz · 1cyc) (*1)	I_{FSM}	3	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

●Electrical characteristics (Ta=25°C)

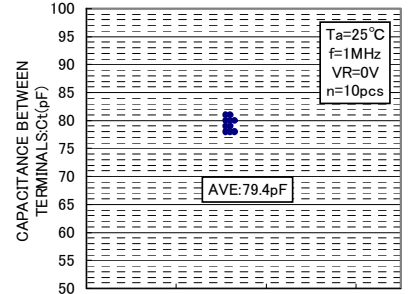
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.49	V	$I_F=700mA$
Reverse current	I_R	-	-	200	μA	$V_R=20V$



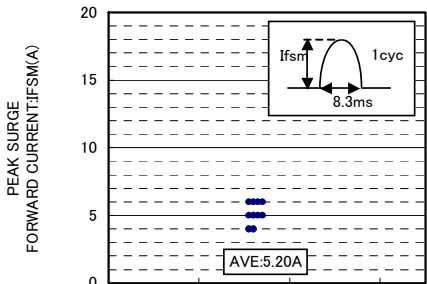
VF DISPERSION MAP



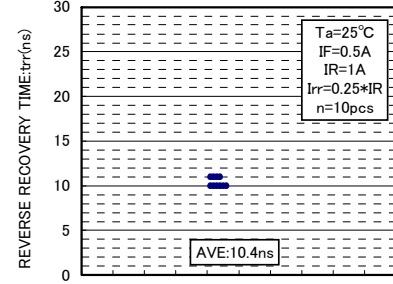
IR DISPERSION MAP



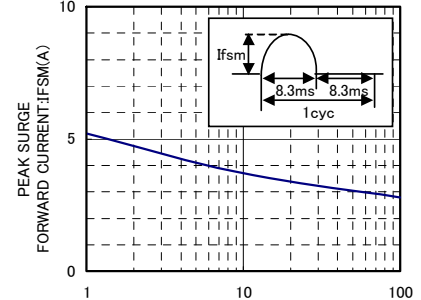
Ct DISPERSION MAP



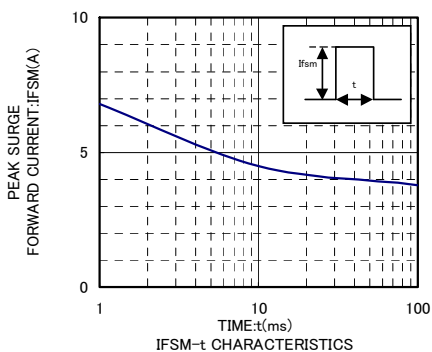
IFSM DISPERSION MAP



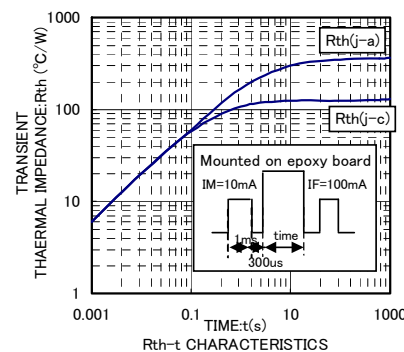
t_{rr} DISPERSION MAP



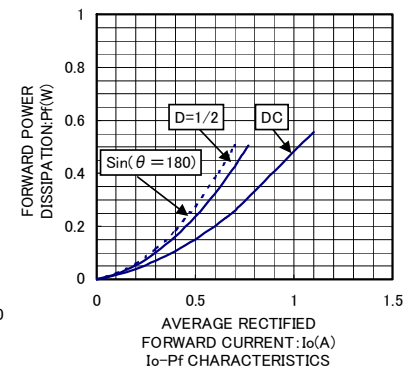
IFSM-CYCLE CHARACTERISTICS



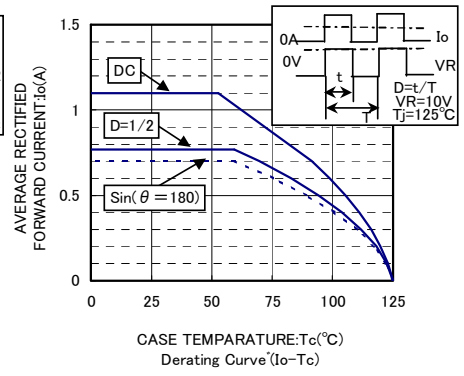
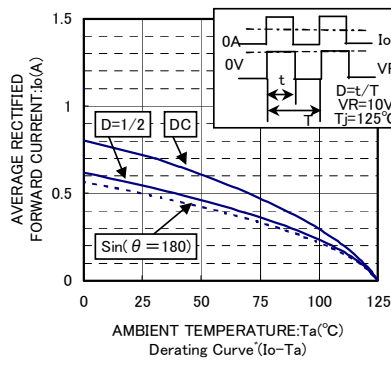
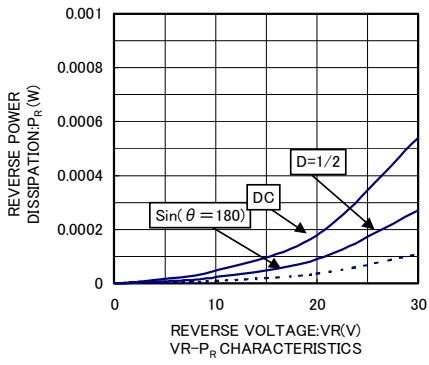
IFSM-t CHARACTERISTICS



R_{th}-t CHARACTERISTICS



I_o-P_f CHARACTERISTICS



Notes

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