

Schottky Barrier Diode

RBE1KA20A

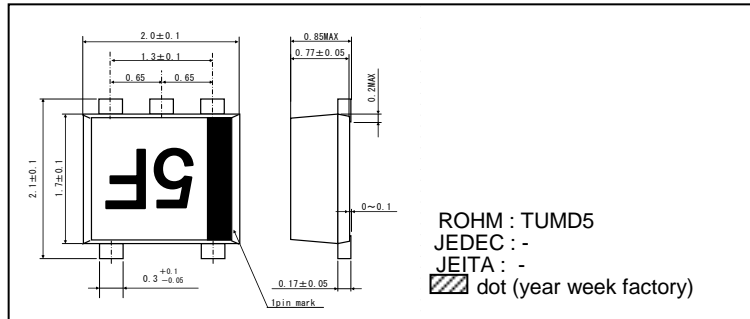
●Applications

Rectifying Small Power

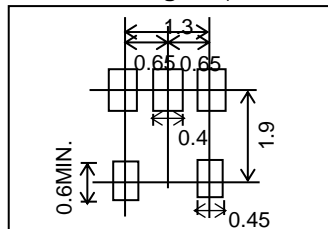
●Features

- 1) Small power mold type (TUMD5)
- 2) High reliability

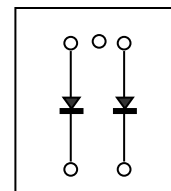
●Dimensions (Unit : mm)



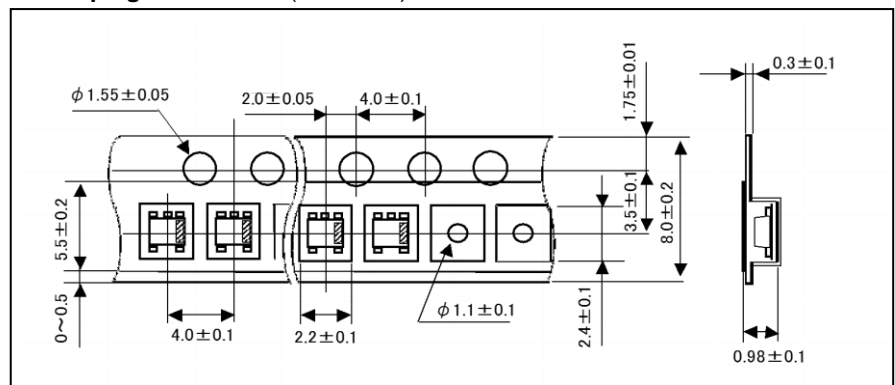
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



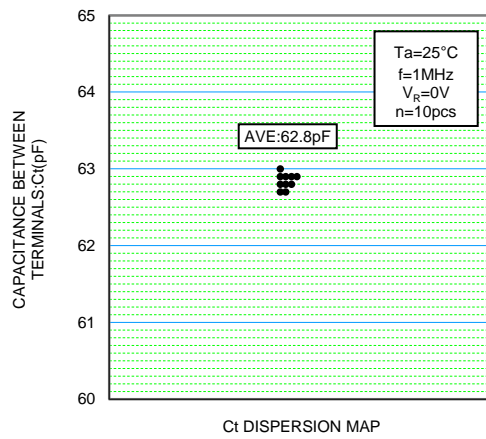
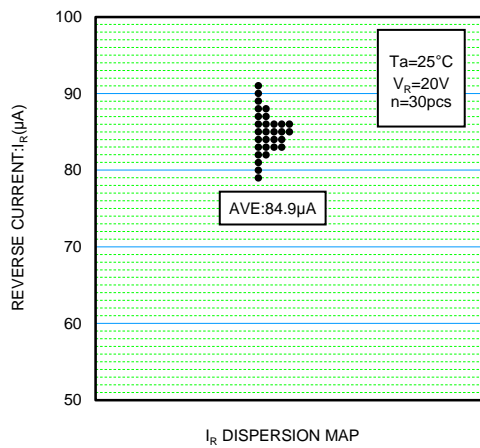
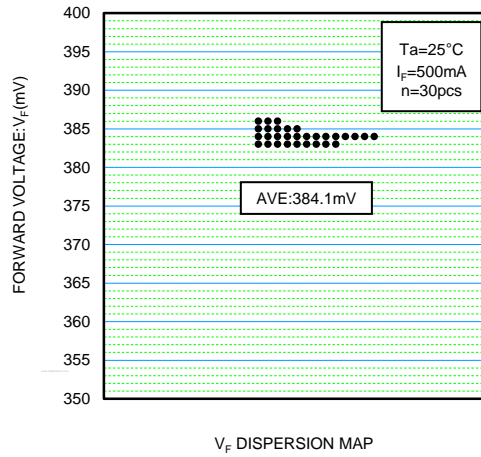
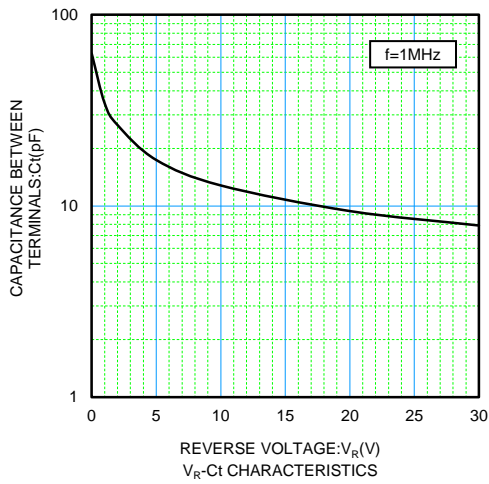
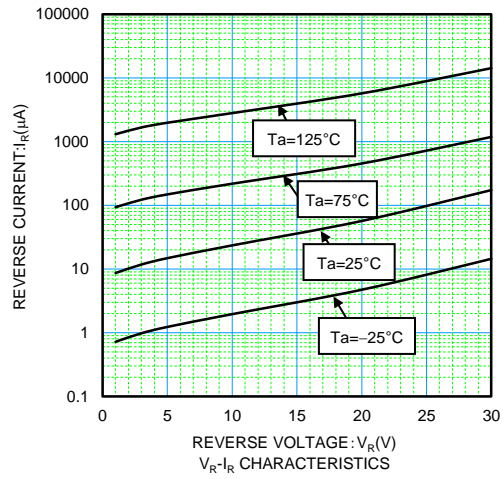
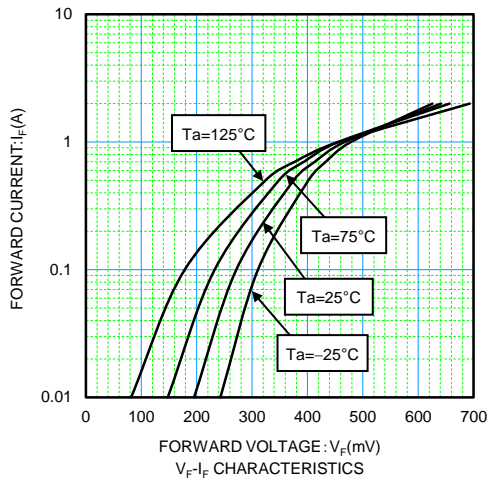
●Absolute maximum ratings (T_c=25°C)

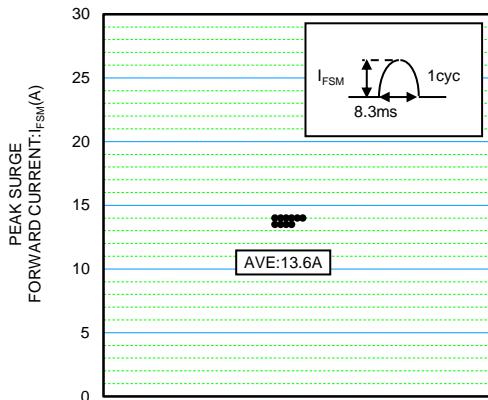
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V _{RM}	30	V
Reverse voltage (DC)	V _R	20	V
Average rectified forward current (*1)	I _o	1	A
Forward current surge peak (60Hz · 1cyc) (*2)	I _{FSM}	3	A
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

(*1) Rating for each diode I_o/2 (*2) Rating of per diode.

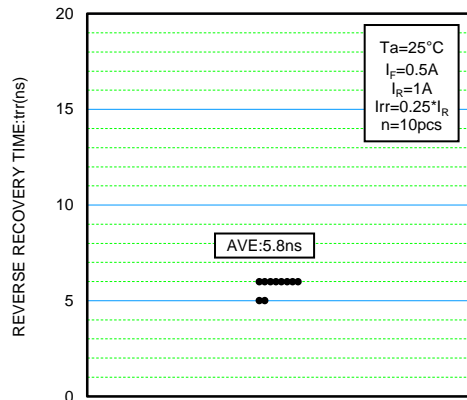
●Electrical characteristics (T_j=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	0.43	V	I _F =0.5A
Reverse current	I _R	-	-	200	μA	V _R =20V

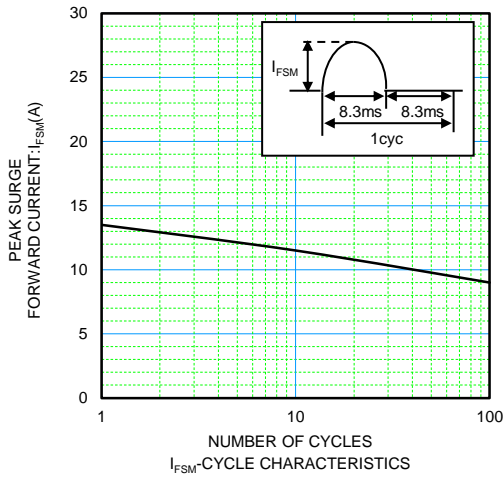




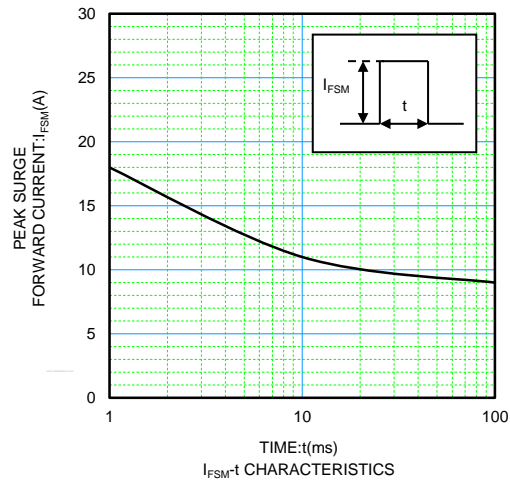
I_{FSM} DISPERSION MAP



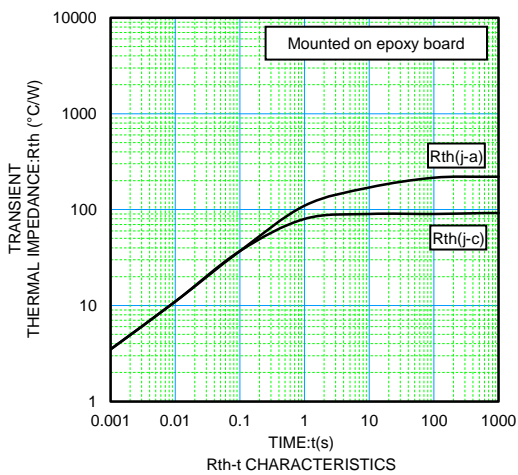
trr DISPERSION MAP



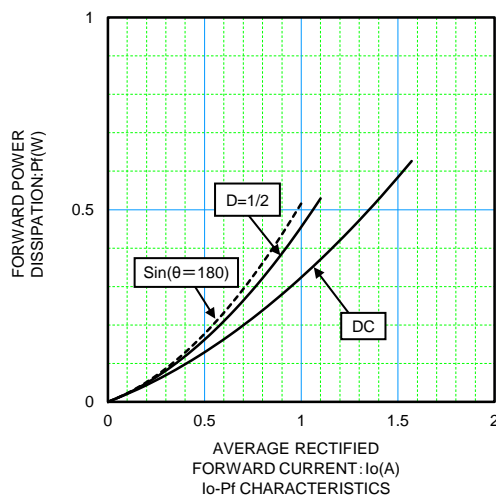
I_{FSM} -CYCLE CHARACTERISTICS



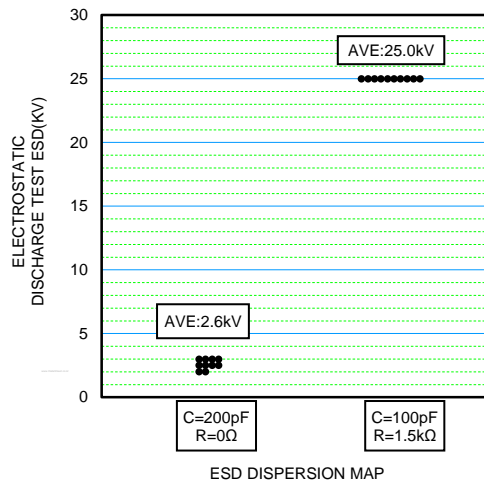
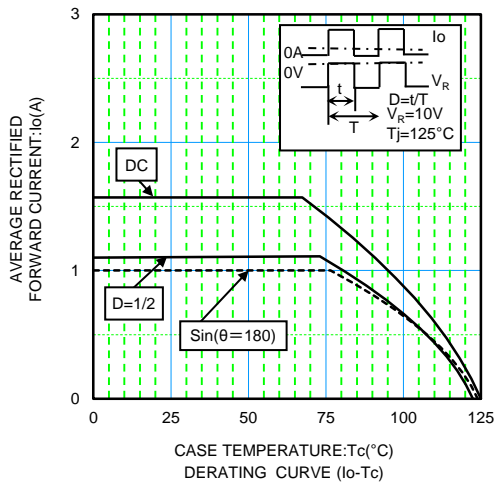
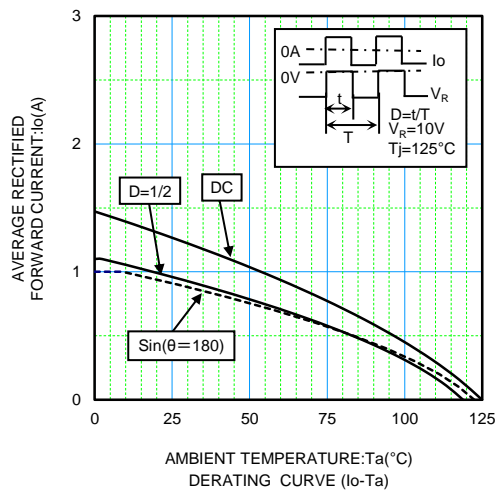
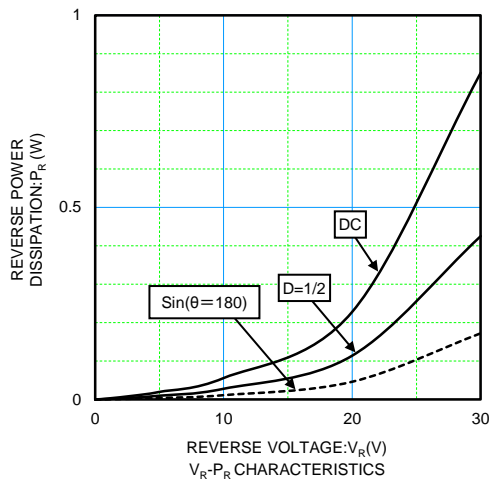
I_{FSM} -t CHARACTERISTICS



R_{th} -t CHARACTERISTICS



I_o -Pf CHARACTERISTICS



Notes

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