

# Schottky Barrier Diode

## RBE1KA20A

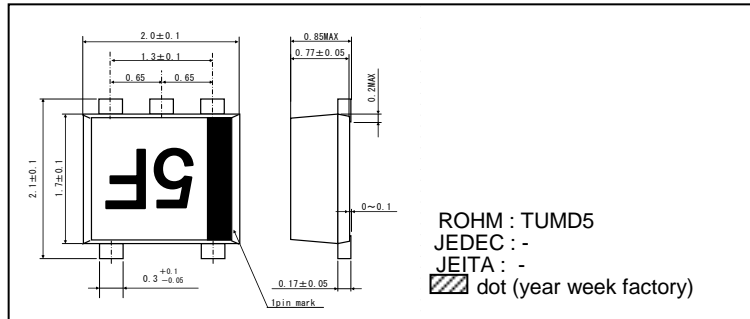
**●Applications**

Rectifying Small Power

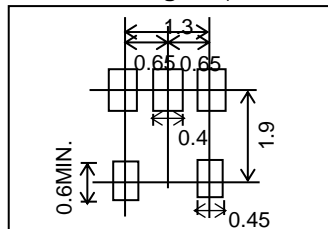
**●Features**

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

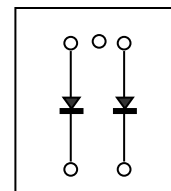
**●Dimensions (Unit : mm)**



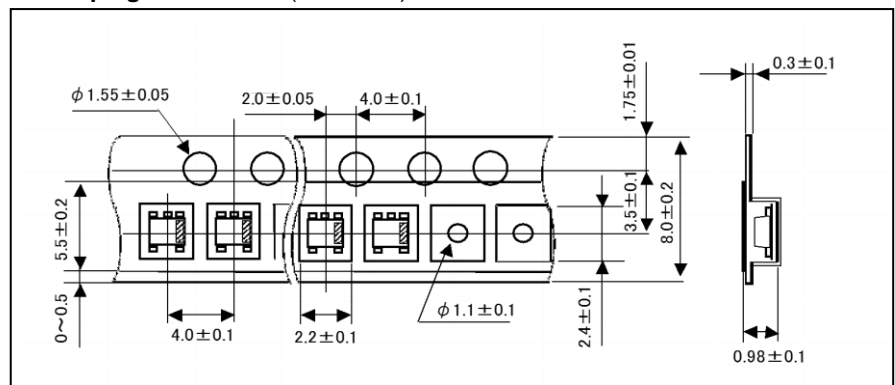
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping dimensions (Unit : mm)**



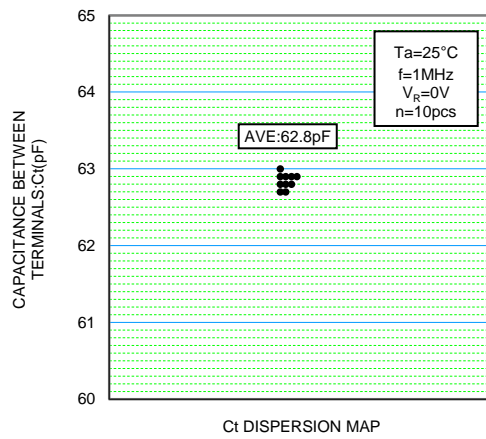
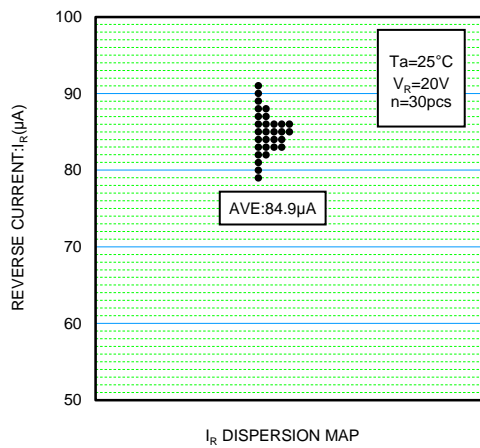
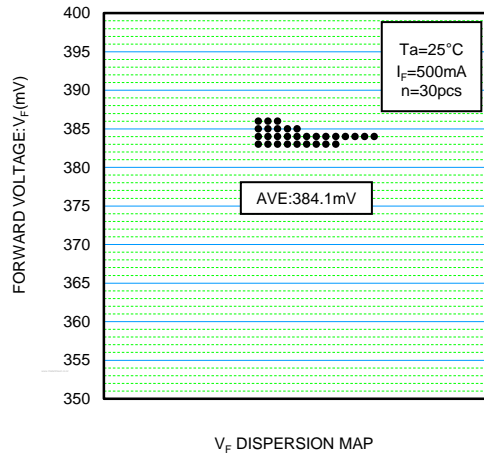
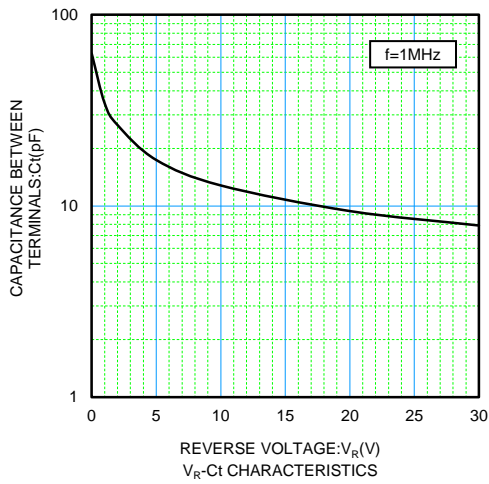
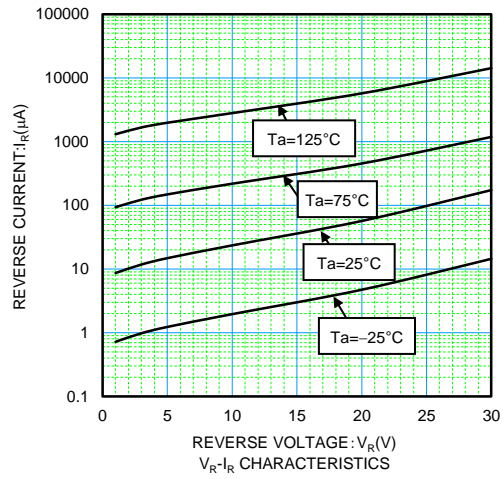
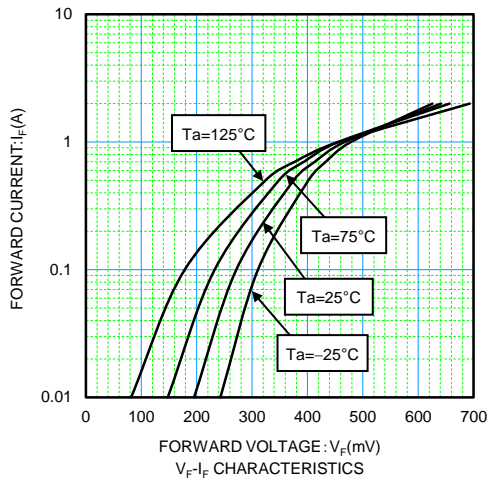
**●Absolute maximum ratings (T<sub>c</sub>=25°C)**

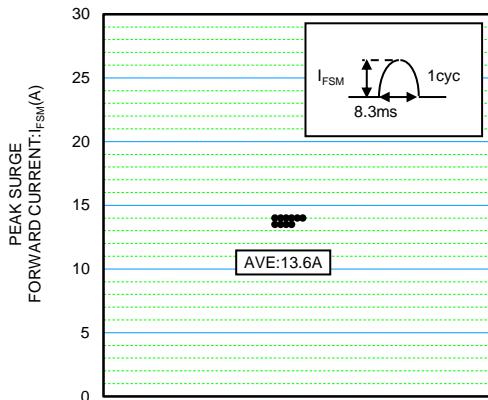
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	30	V
Reverse voltage (DC)	V <sub>R</sub>	20	V
Average rectified forward current (*1)	I <sub>o</sub>	1	A
Forward current surge peak (60Hz · 1cyc) (*2)	I <sub>FSM</sub>	3	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40 to +125	°C

(\*1) Rating for each diode I<sub>o</sub>/2      (\*2) Rating of per diode.

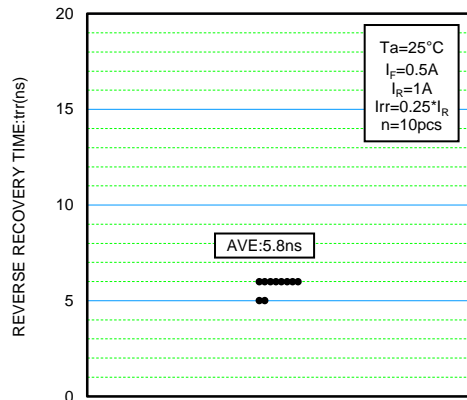
**●Electrical characteristics (T<sub>j</sub>=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.43	V	I <sub>F</sub> =0.5A
Reverse current	I <sub>R</sub>	-	-	200	μA	V <sub>R</sub> =20V

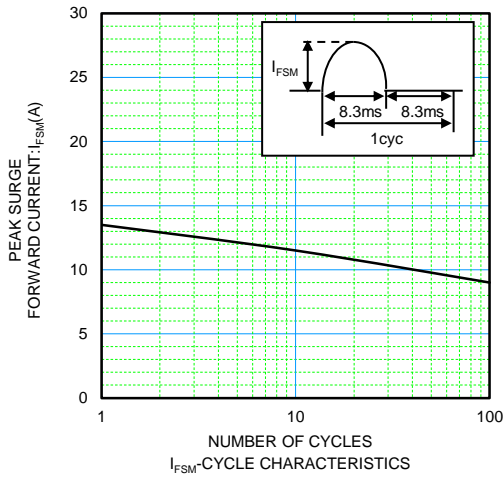




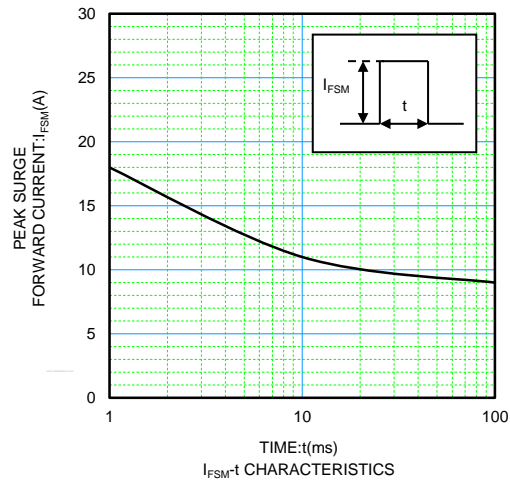
$I_{FSM}$  DISPERSION MAP



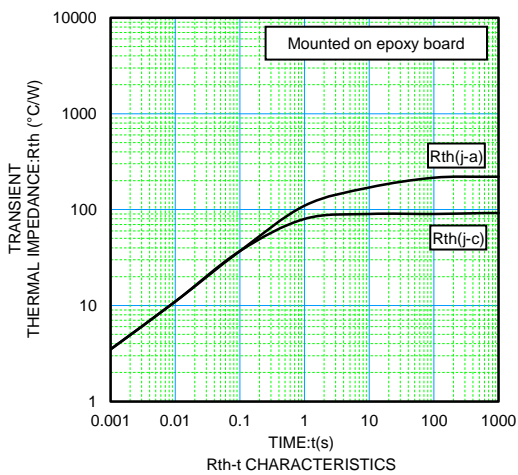
trr DISPERSION MAP



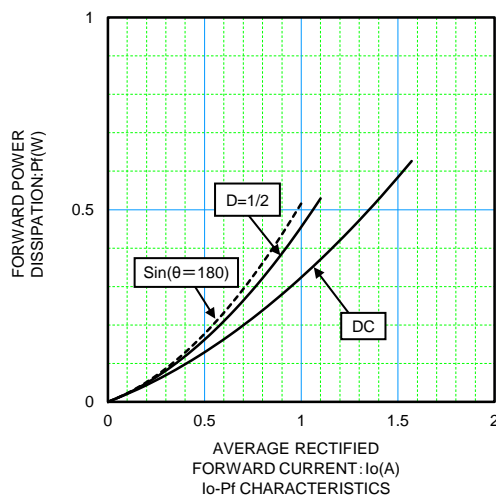
$I_{FSM}$ -CYCLE CHARACTERISTICS



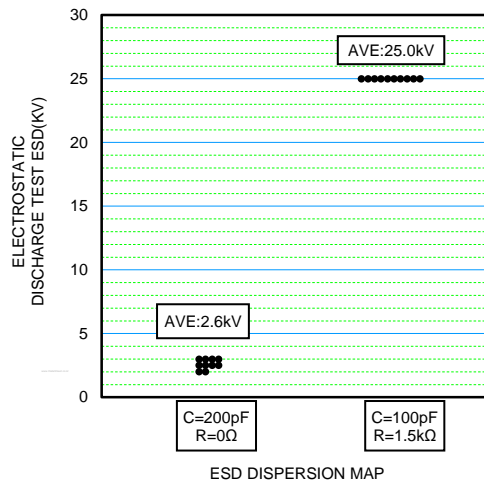
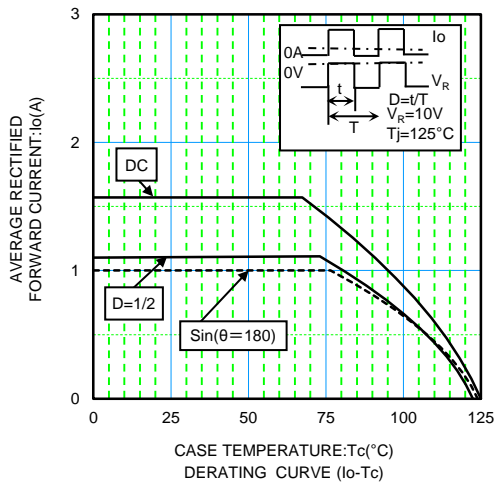
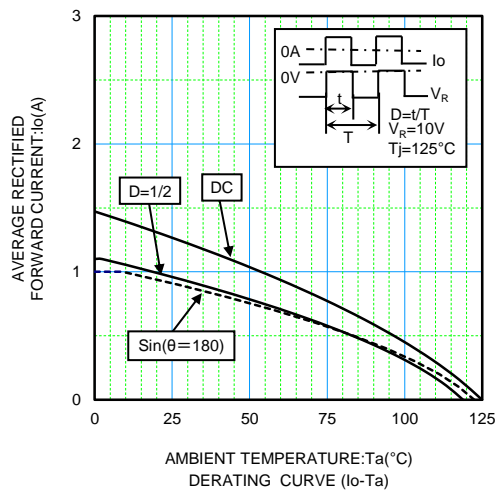
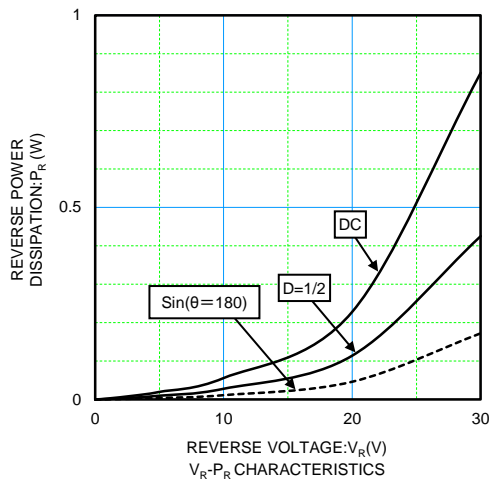
$I_{FSM}$ -t CHARACTERISTICS



Rth-t CHARACTERISTICS



$I_o$ -Pf CHARACTERISTICS



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