

Schottky Barrier Diode

RBE05SM20A

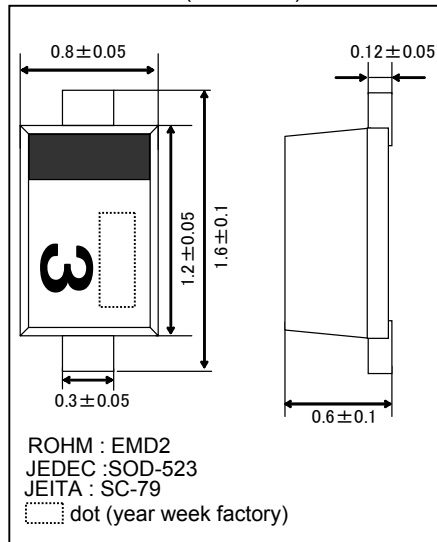
●Applications

Small current recification

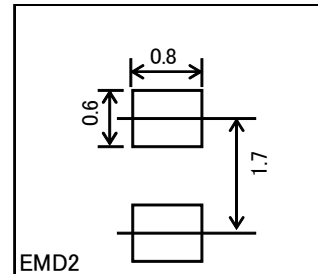
●Features

- 1) Ultra small mold type. (EMD2)
- 2) High reliability

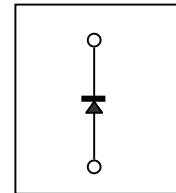
●Dimensions (Unit : mm)



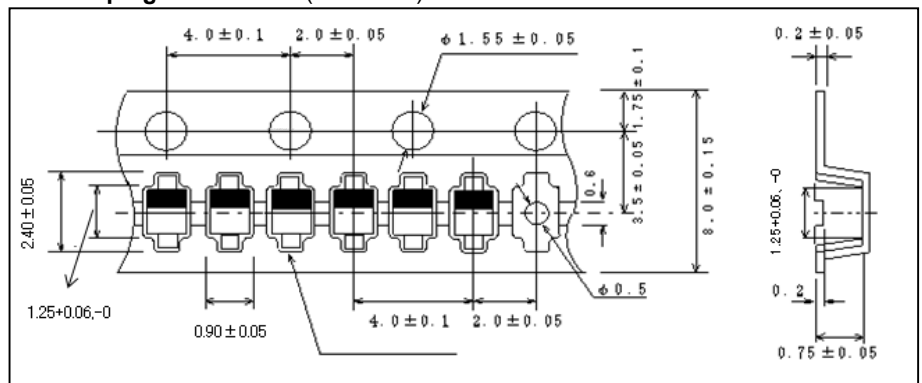
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

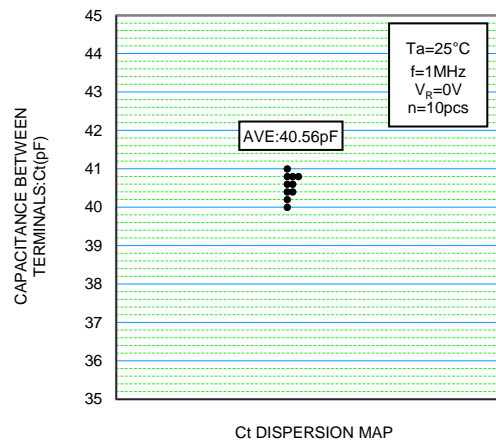
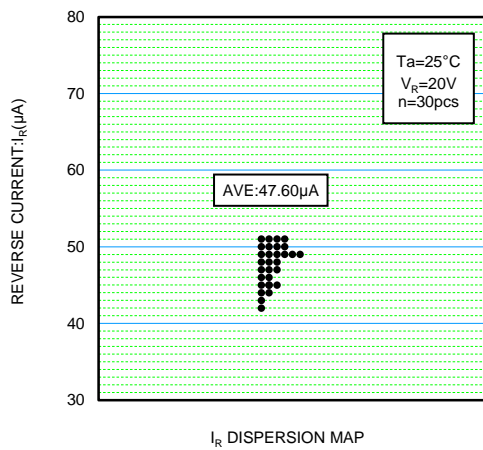
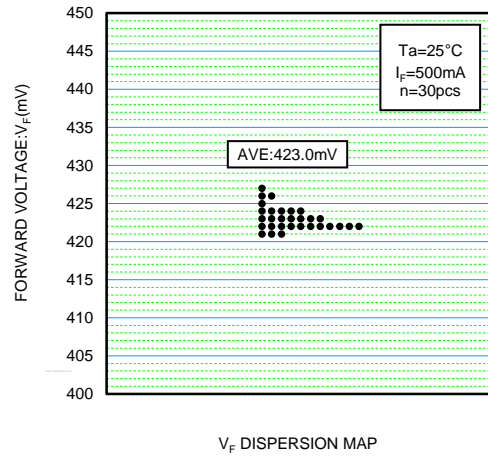
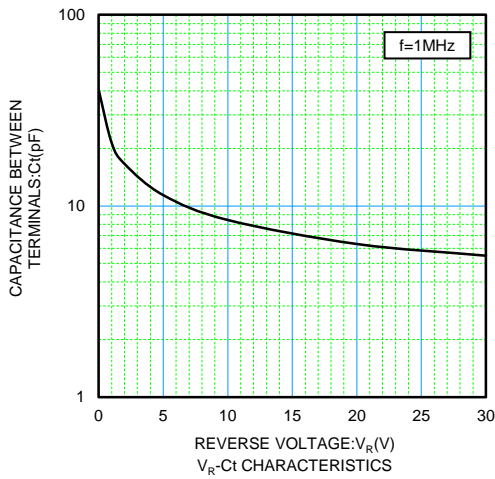
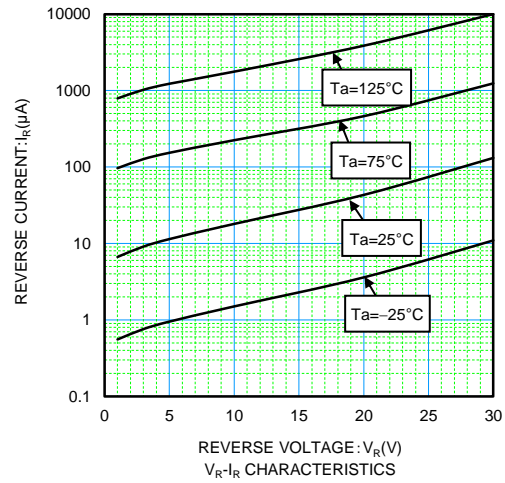
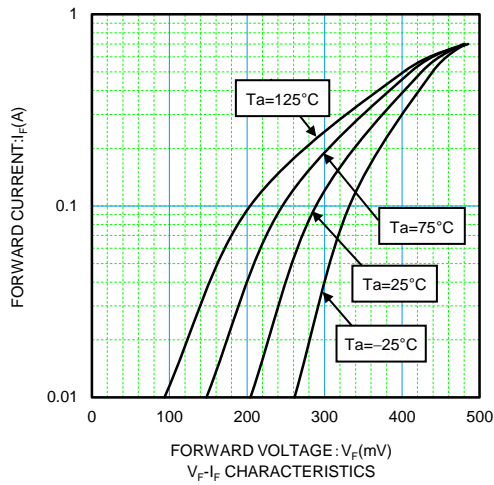


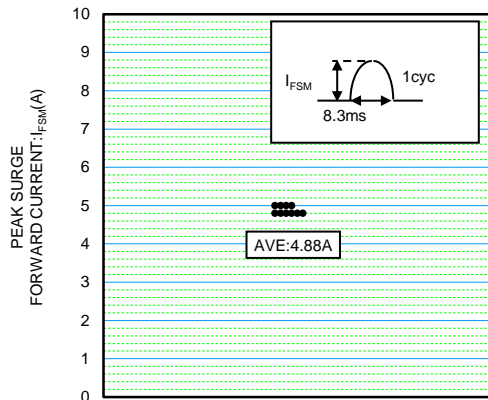
●Absolute maximum ratings (Tc=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	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}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

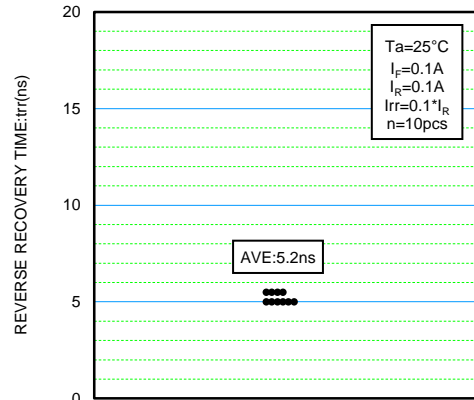
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.53	V	$I_F=500mA$
Reverse current	I_R	-	-	150	μA	$V_R=20V$

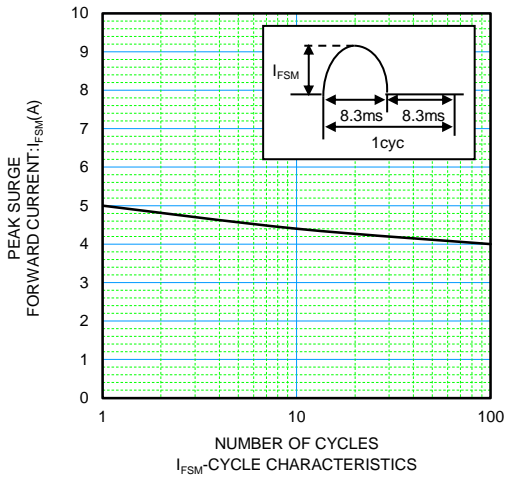




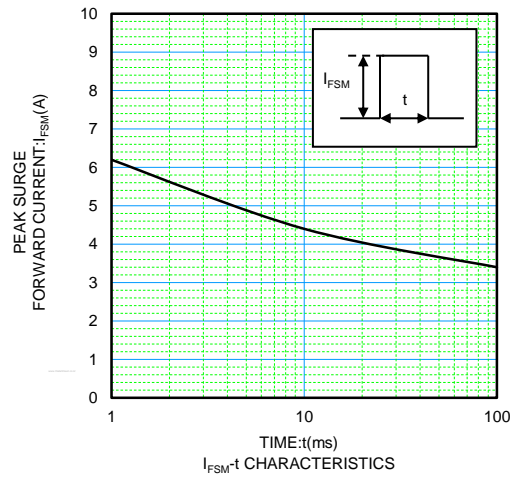
I_{FSM} DISPERSION MAP



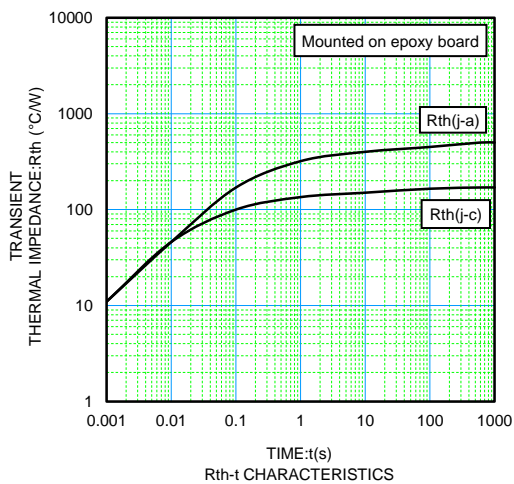
trr DISPERSION MAP



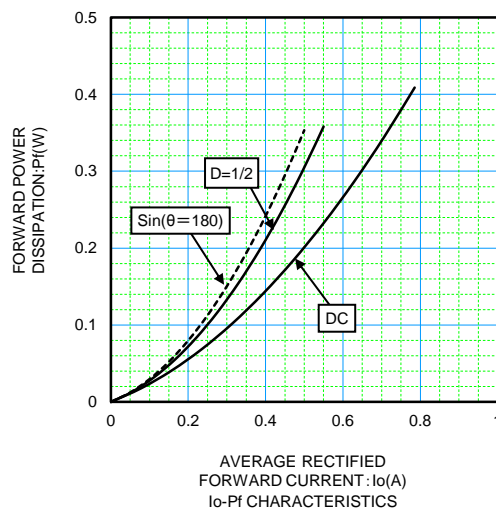
I_{FSM} CYCLE CHARACTERISTICS



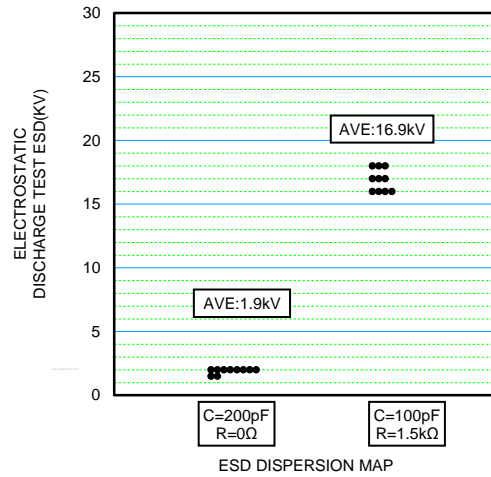
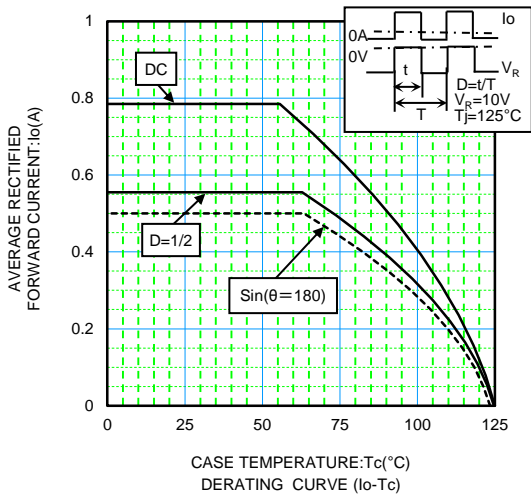
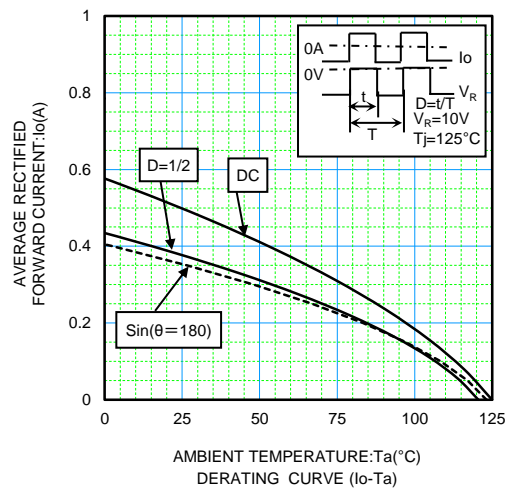
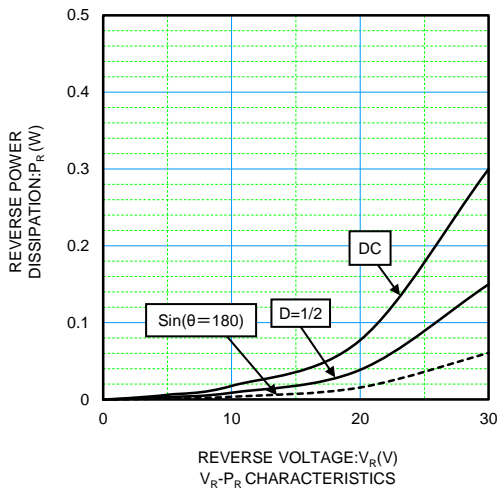
I_{FSM} -t CHARACTERISTICS



Rth-t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT : I_o (A)
 I_o -Pf CHARACTERISTICS



Notes

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