

# Schottky Barrier Diode

## RBE05VM20A

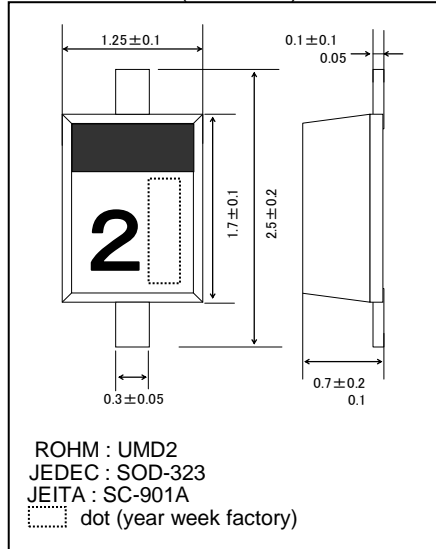
●Applications

Small current rectification

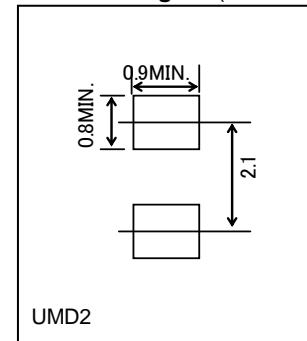
●Features

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

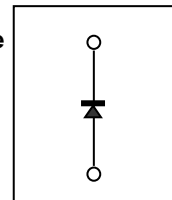
●Dimensions (Unit : mm)



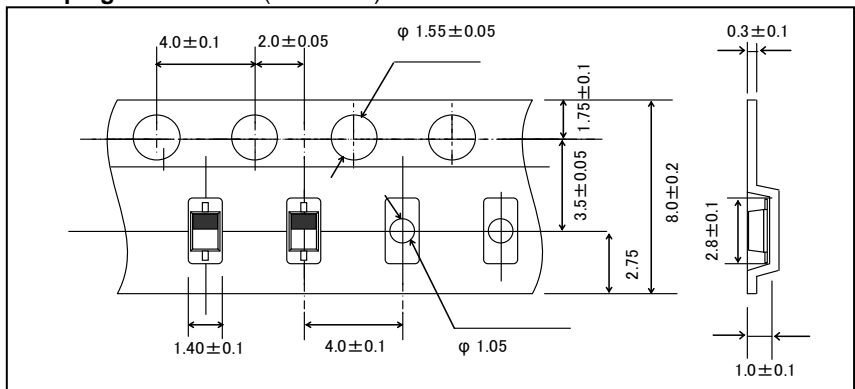
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

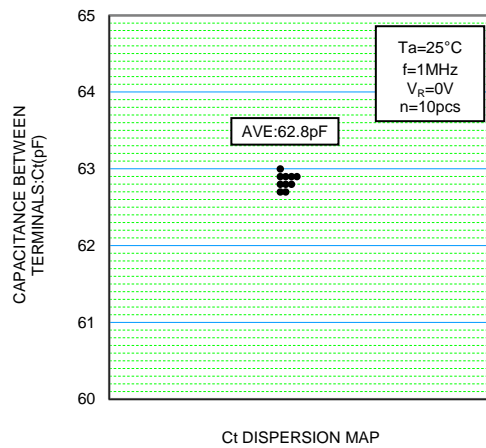
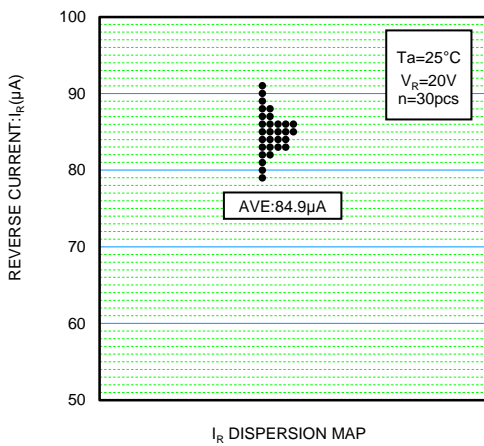
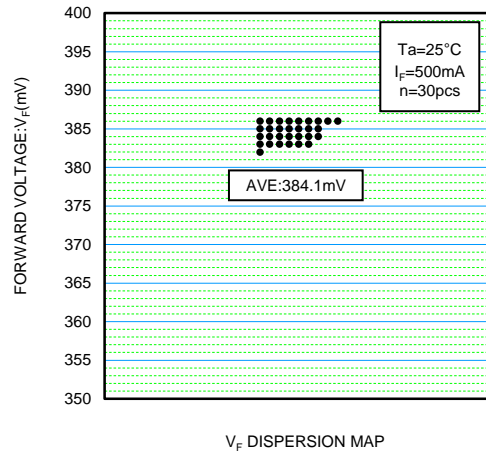
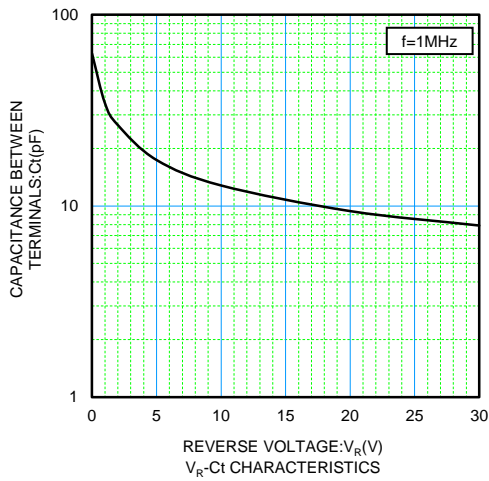
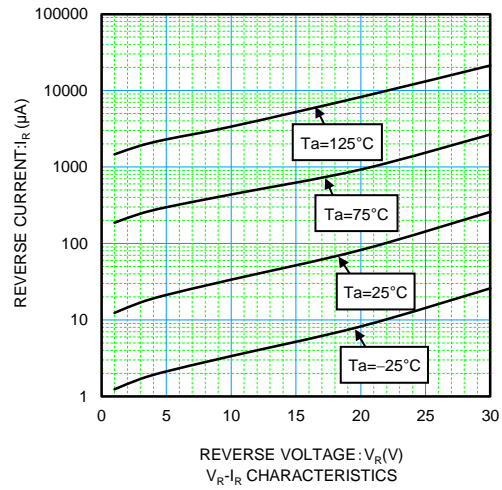
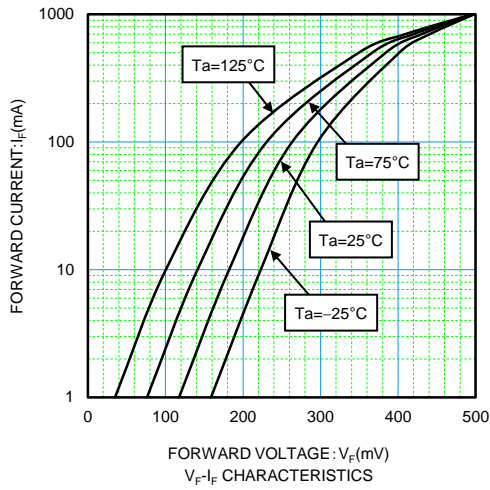


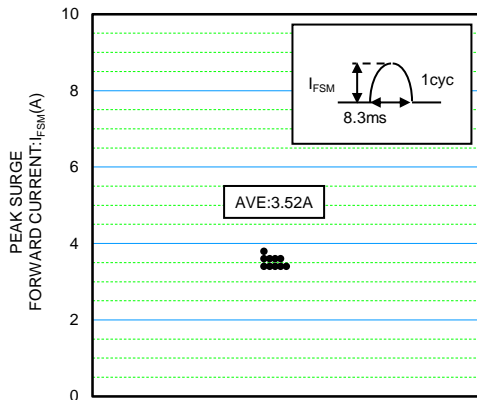
●Absolute maximum ratings (Tc=25°C)

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)	$I_{FSM}$	2	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

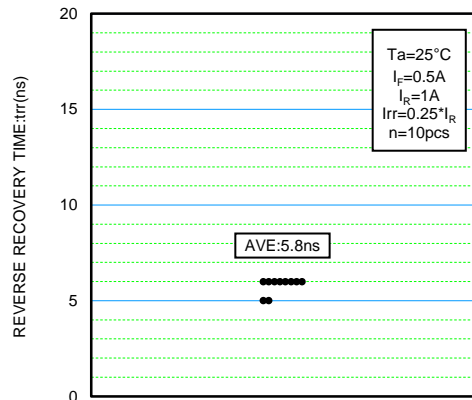
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.43	V	$I_F=500mA$
Reverse current	$I_R$	-	-	200	μA	$V_R=20V$

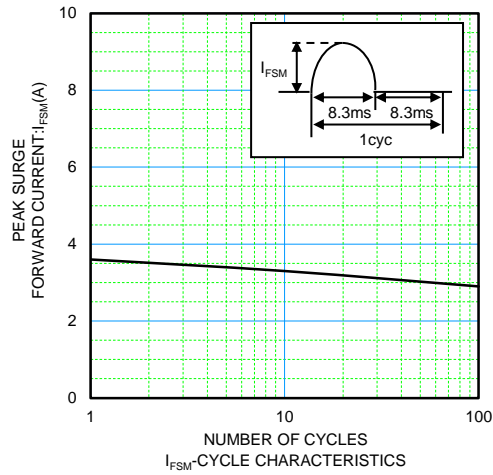




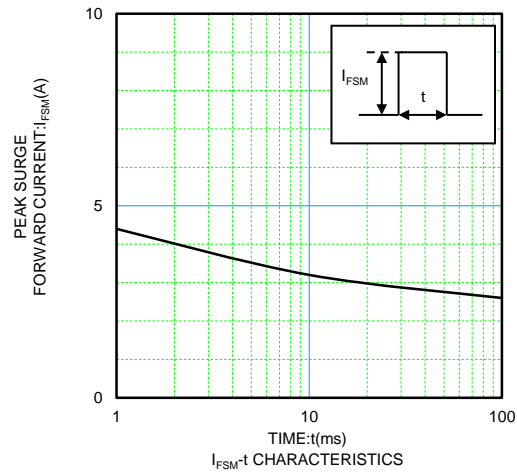
$I_{FSM}$  DISPERSION MAP



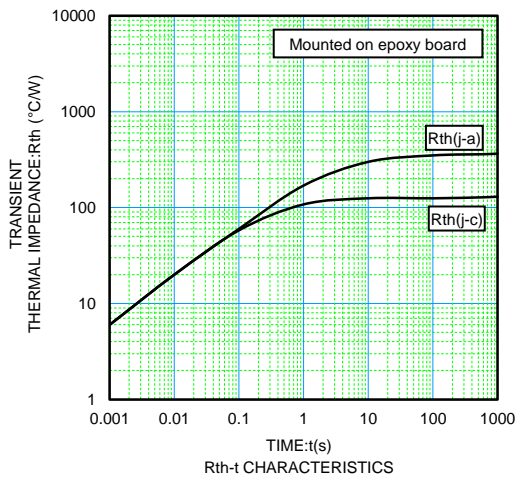
$trr$  DISPERSION MAP



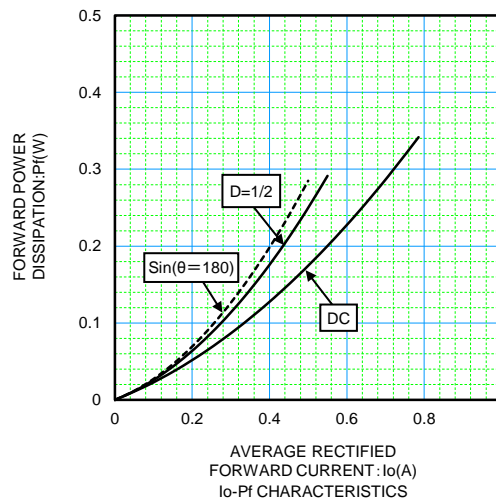
$I_{FSM}$ -CYCLE CHARACTERISTICS



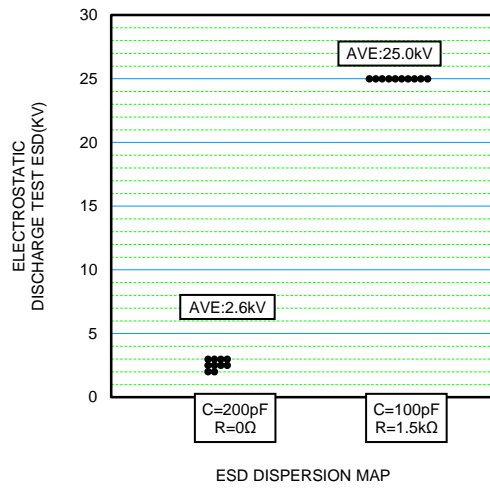
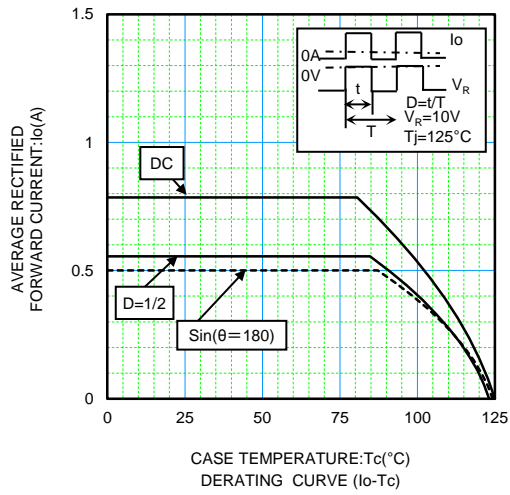
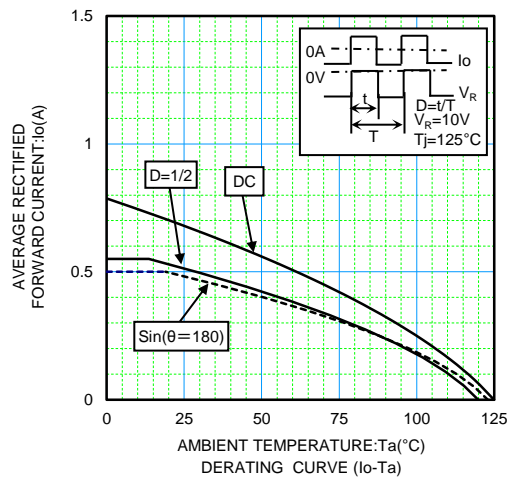
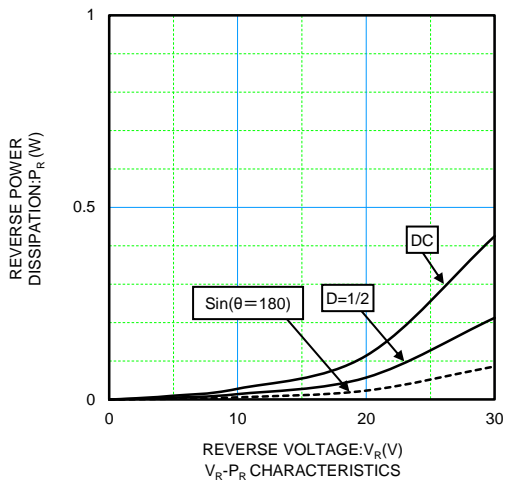
$I_{FSM}$ - $t$  CHARACTERISTICS



$R_{th}$ - $t$  CHARACTERISTICS



$I_o$ - $P_f$  CHARACTERISTICS



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