

# Schottky Barrier Diode

## RB400VA-50

●Applications

General rectification

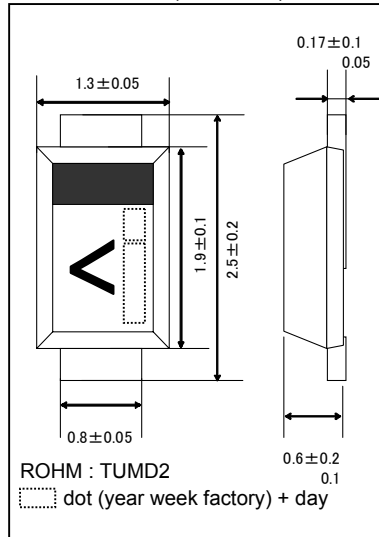
●Features

- 1) Small mold type. (TUMD2)
- 2) Low  $V_F$ , Low  $I_R$ .
- 3) High reliability.

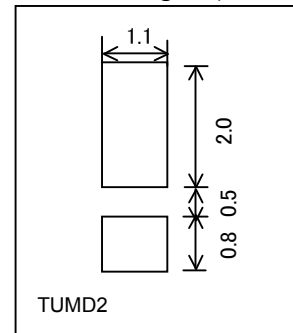
●Construction

Silicon epitaxial planer

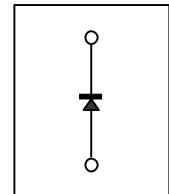
●Dimensions (Unit : mm)



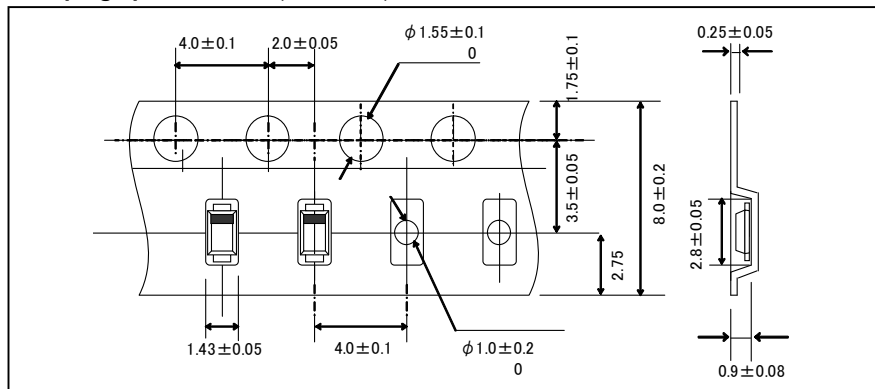
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

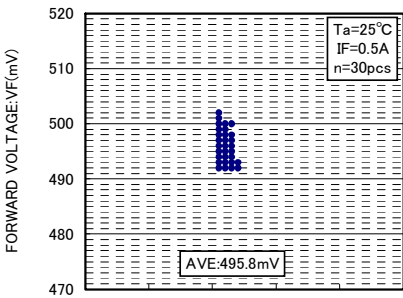
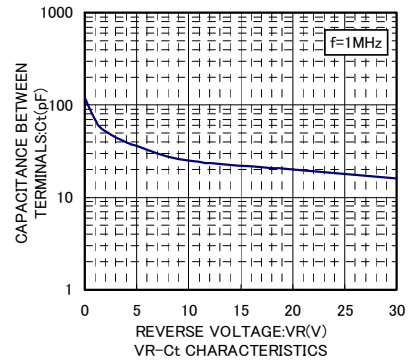
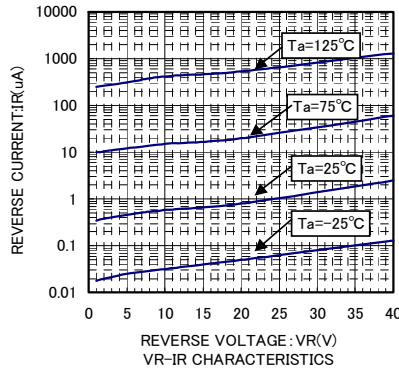
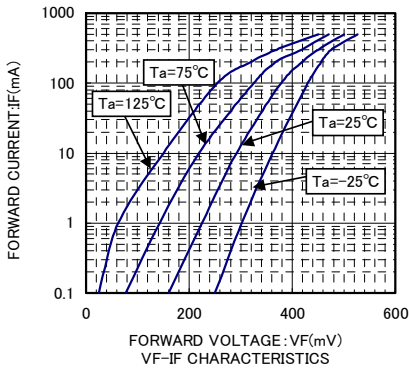


●Absolute maximum ratings (Ta=25°C)

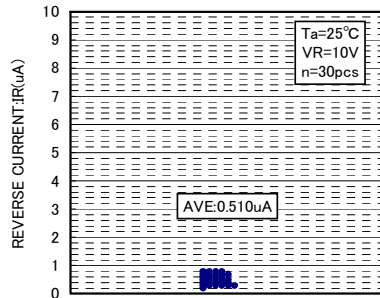
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	50	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	0.5	A
Forward current surge peak (60Hz / 1cyc)	$I_{FSM}$	3	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

●Electrical characteristics (Ta=25°C)

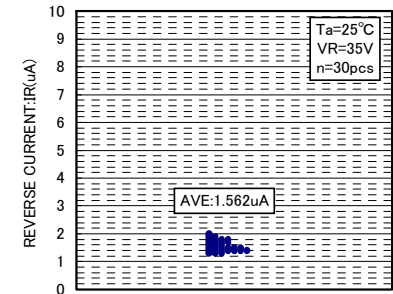
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F1$	-	-	0.55	V	$I_F=500mA$
Reverse current	$I_{R1}$	-	-	30	$\mu A$	$V_R=10V$
	$I_{R2}$	-	-	50	$\mu A$	$V_R=30V$
Capacitance between terminals	$C_{t1}$	-	125	-	pF	$V_R=0V, f=1MHz$
	$C_{t2}$	-	20	-	pF	$V_R=10V, f=1MHz$



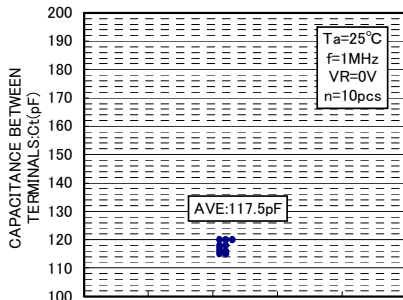
VF DISPERSION MAP



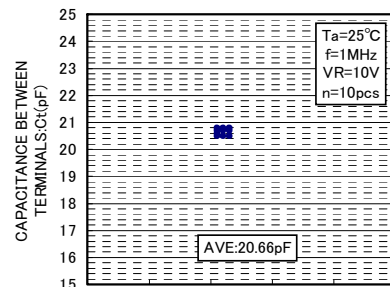
IR DISPERSION MAP



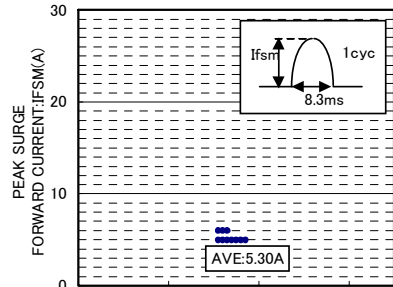
IR DISPERSION MAP



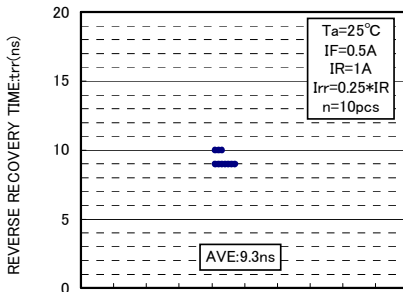
Ct DISPERSION MAP



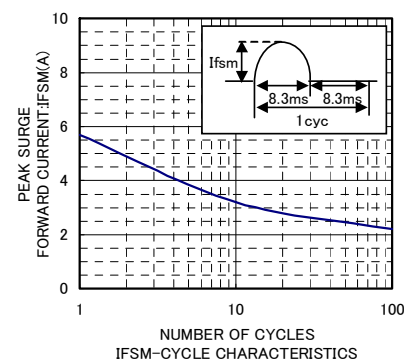
Ct DISPERSION MAP



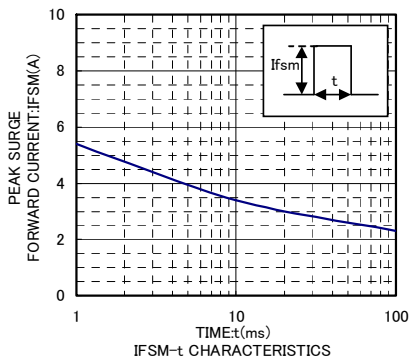
IFSM DISPERSION MAP



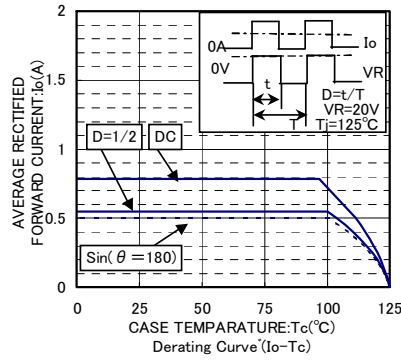
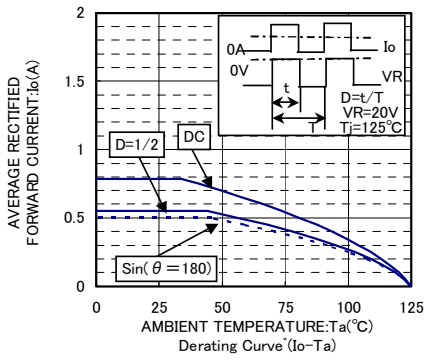
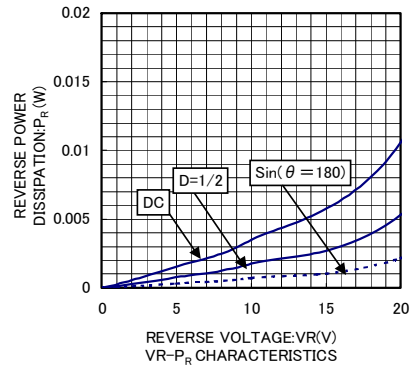
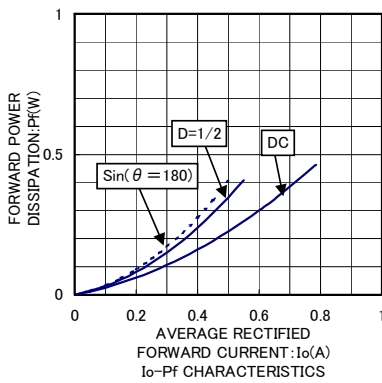
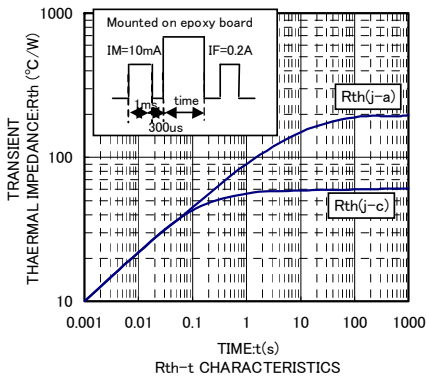
trr DISPERSION MAP



IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



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