

# Schottky barrier diode

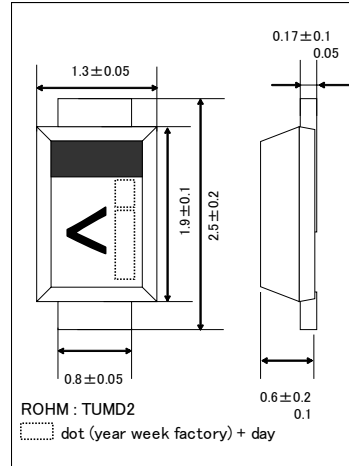
## RB400VA-50

● **Applications**  
General rectification

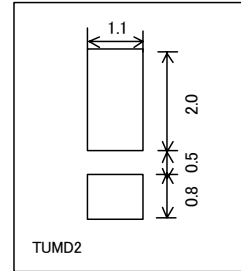
● **Features**  
1) Small mold type. (TUMD2)  
2) Low  $I_F$ , Low  $I_R$ .  
3) High reliability.

● **Construction**  
Silicon epitaxial planar

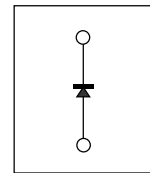
● **External dimensions (Unit : mm)**



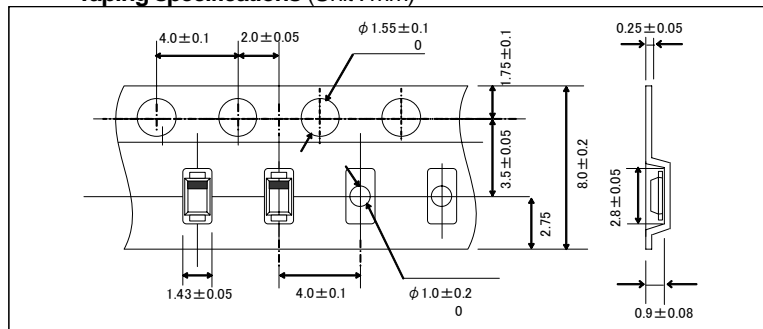
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping specifications (Unit : mm)**



● **Absolute maximum ratings (Ta=25°C)**

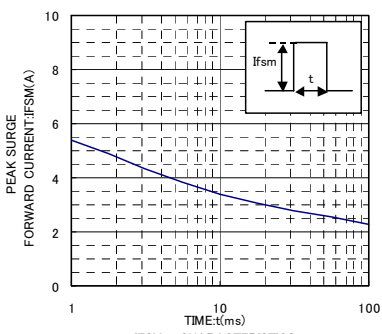
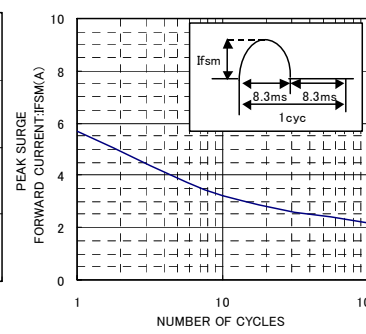
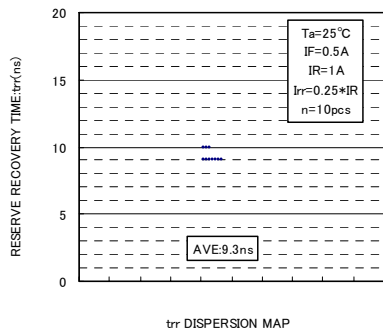
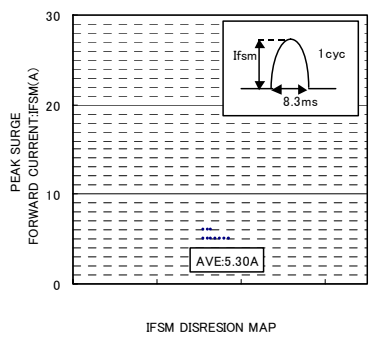
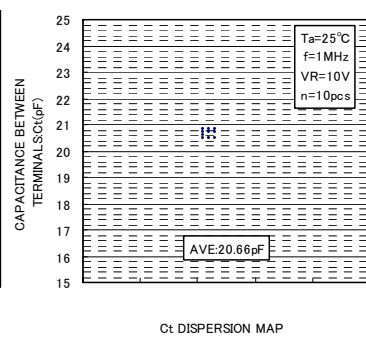
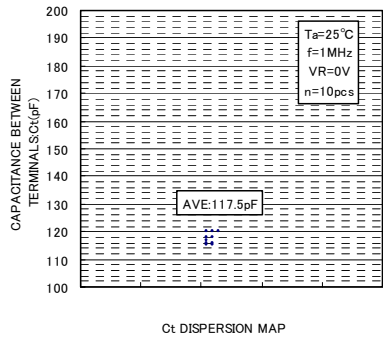
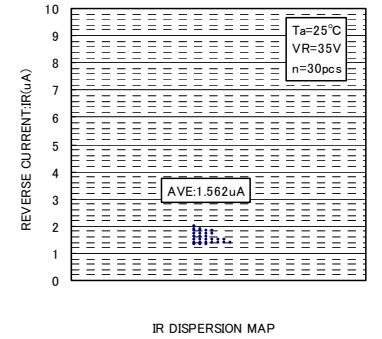
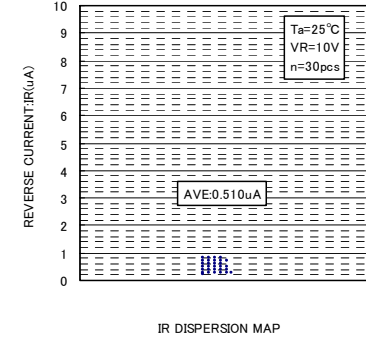
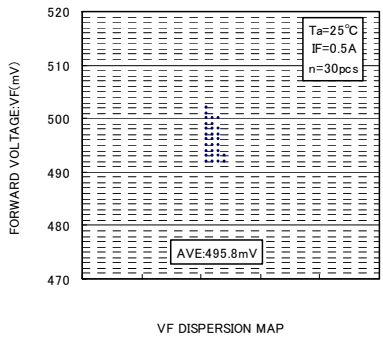
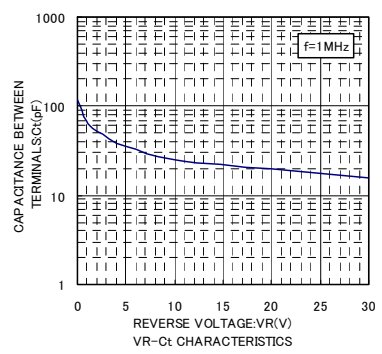
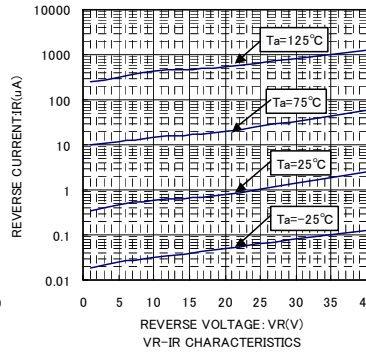
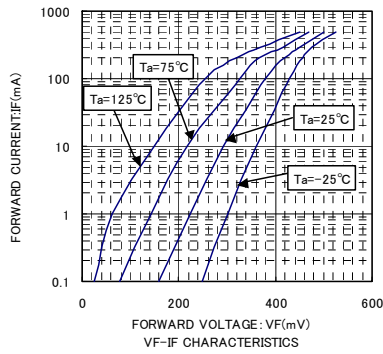
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	50	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	0.5	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	3	A
Junction temperature	$T_J$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

● **Electrical characteristics (Ta=25°C)**

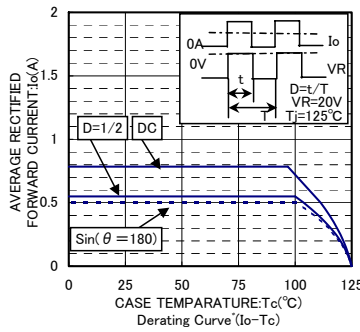
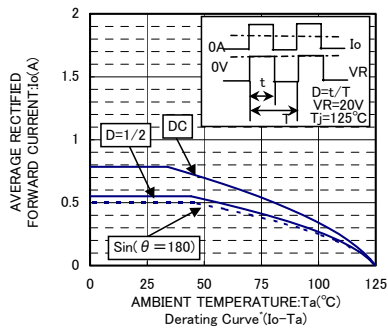
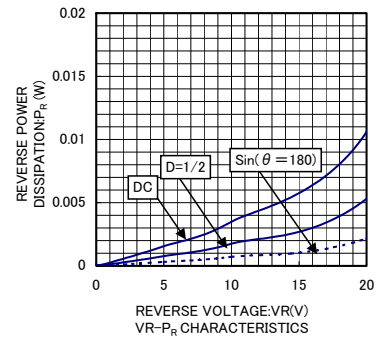
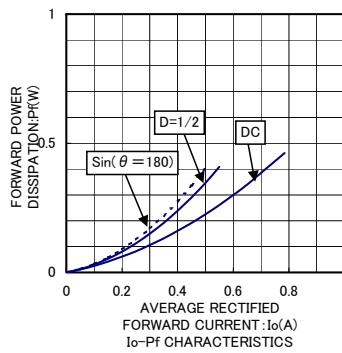
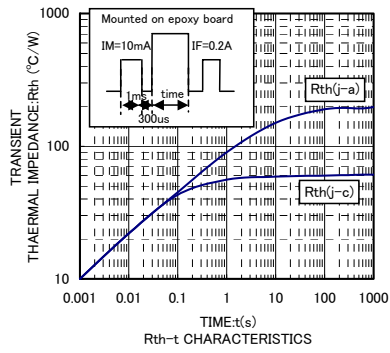
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.55	V	$I_F=500mA$
Reverse current	$I_{R1}$	-	-	30	$\mu A$	$V_R=10V$
	$I_{R2}$	-	-	50	$\mu A$	$V_R=30V$
Capacitance between terminal	$C_{t1}$	-	125	-	pF	$V_R=0V, f=1MHz$
	$C_{t2}$	-	20	-	pF	$V_R=10V, f=1MHz$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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