

Schottky barrier diode

RB400VA-50

●Applications

General rectification

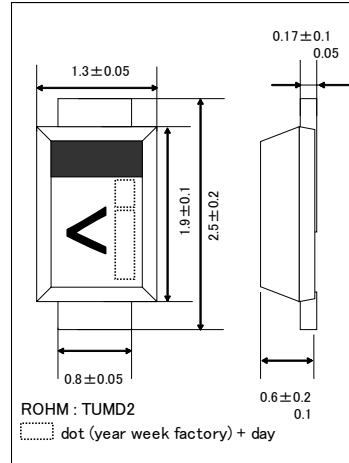
●Features

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

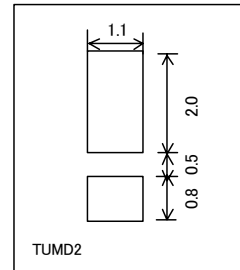
●Construction

Silicon epitaxial planar

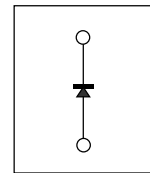
● External dimensions (Unit : mm)



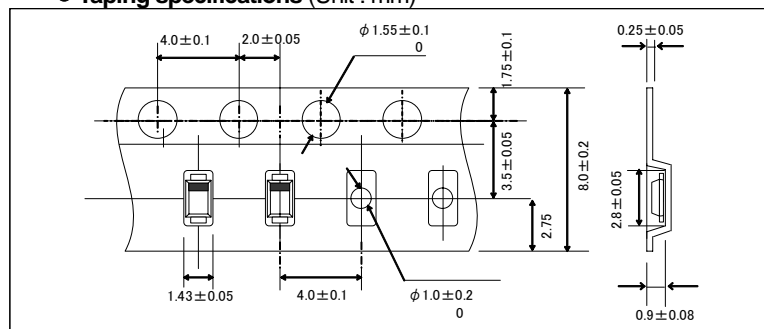
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)

●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

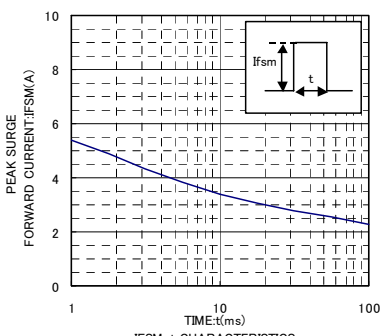
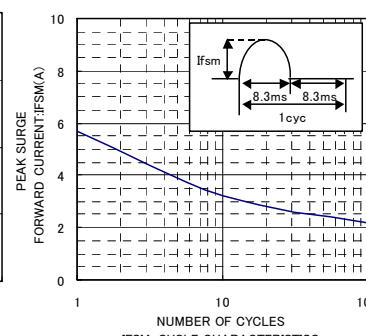
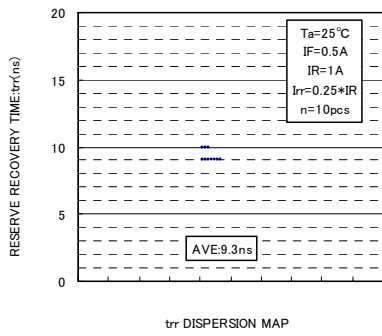
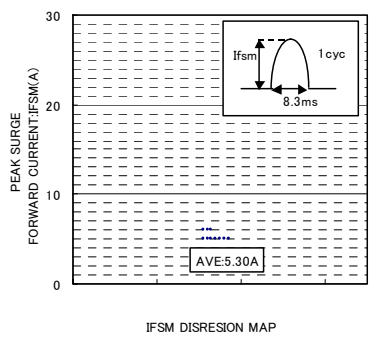
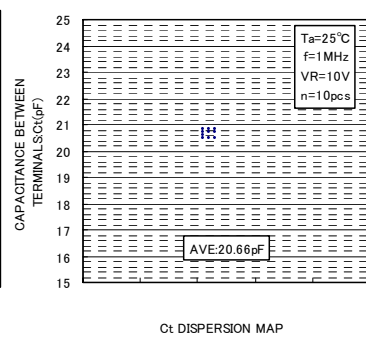
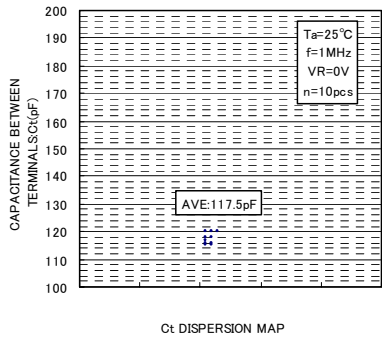
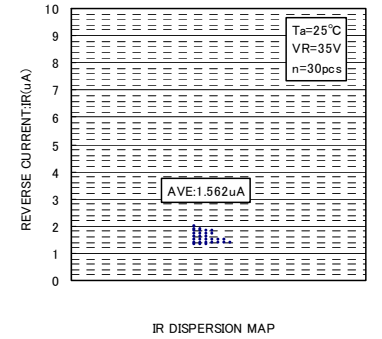
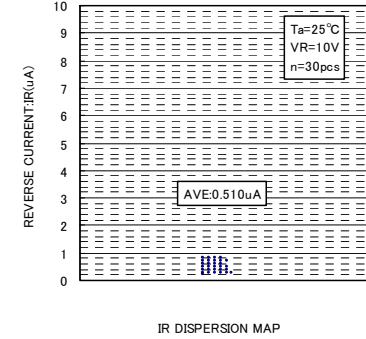
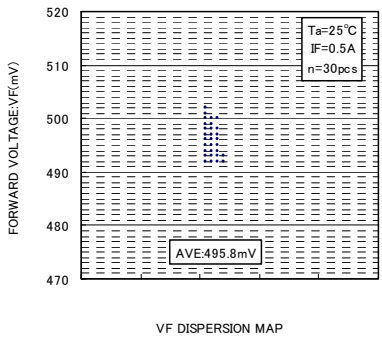
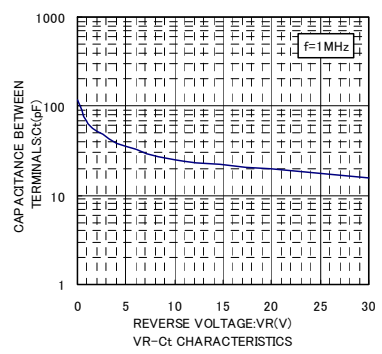
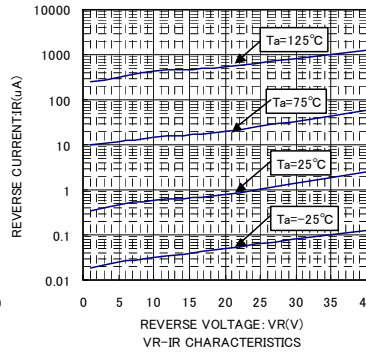
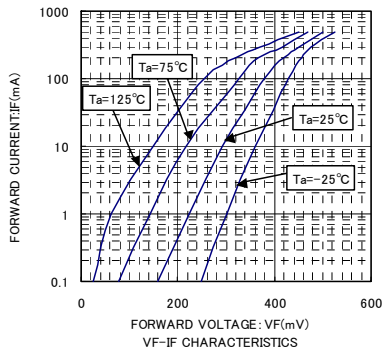
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	50	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_o	0.5	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	3	A
Junction temperature	T_J	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

●Electrical characteristics ($T_a=25^\circ\text{C}$)

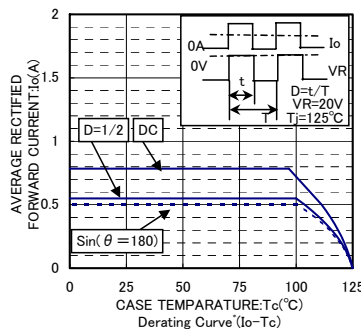
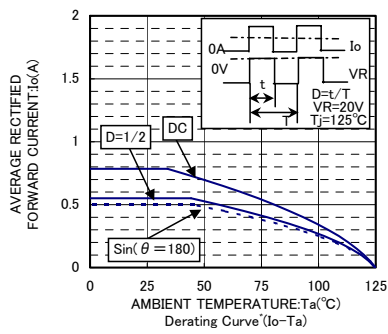
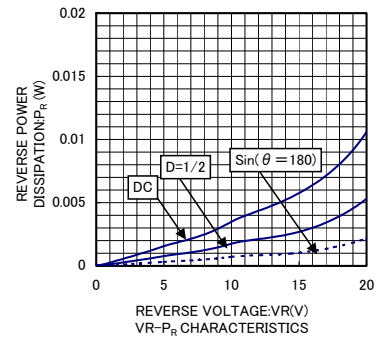
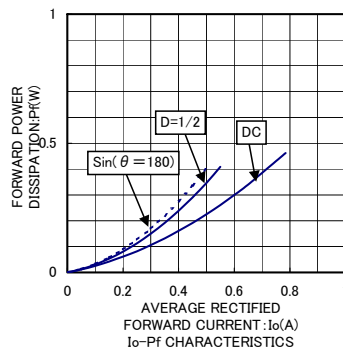
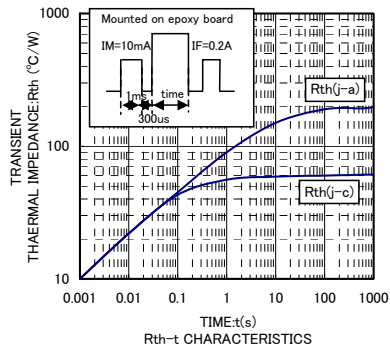
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.55	V	$I_F=500\text{mA}$
Reverse current	I_{R1}	-	-	30	μA	$V_R=10\text{V}$
	I_{R2}	-	-	50	μA	$V_R=30\text{V}$
Capacitance between terminal	C_{t1}	-	125	-	pF	$V_R=0\text{V}$, $f=1\text{MHz}$
	C_{t2}	-	20	-	pF	$V_R=10\text{V}$,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

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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