

# Schottky Barrier Diodes

## RB160VA-40

### ●Applications

General rectification

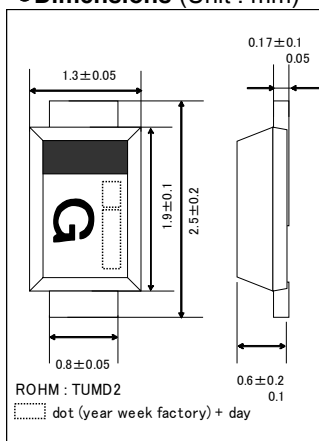
### ●Features

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

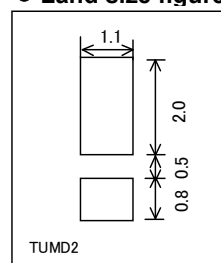
### ●Construction

Silicon epitaxial planar

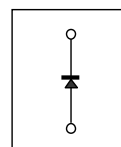
### ●Dimensions (Unit : mm)



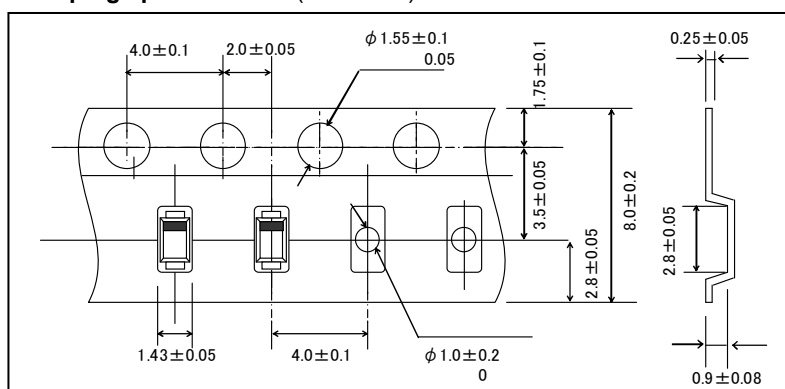
### ● Land size figure (Unit : mm)



### ●Structure



### ● Taping specifications (Unit : mm)



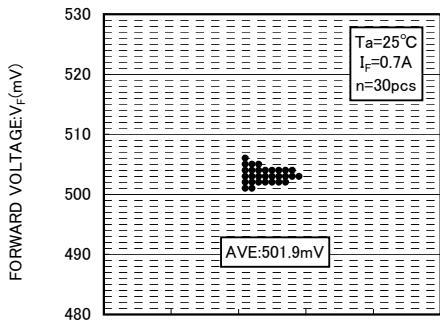
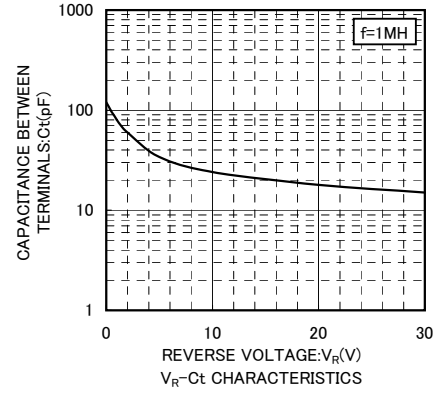
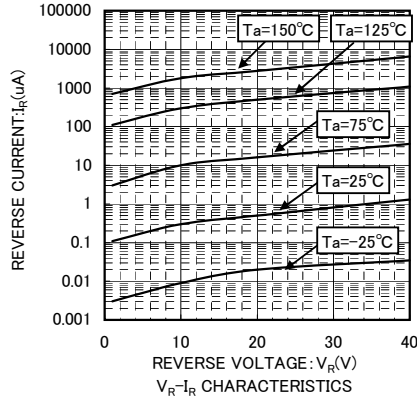
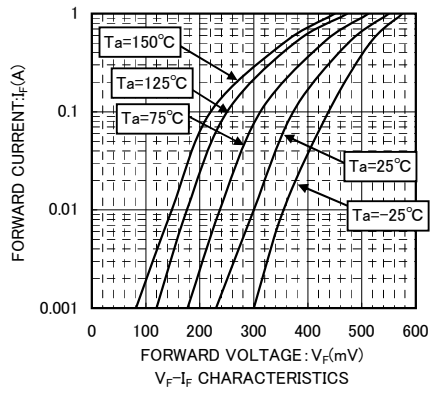
### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	1	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	5	A
Forward current surge peak (t=100μs·1cyc)	$I_{FSM}$	10	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

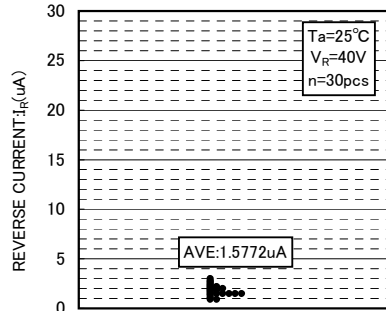
### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.50	0.55	V	$I_F=700mA$
Reverse current	$I_R$	-	1.5	50	μA	$V_R=40V$

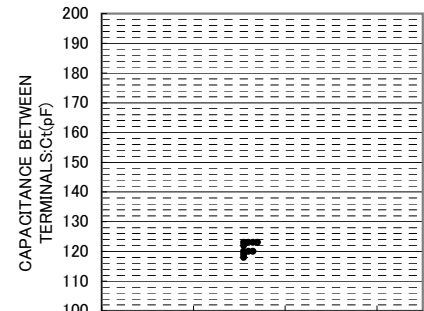
●Electrical characteristic curves (Ta=25°C)



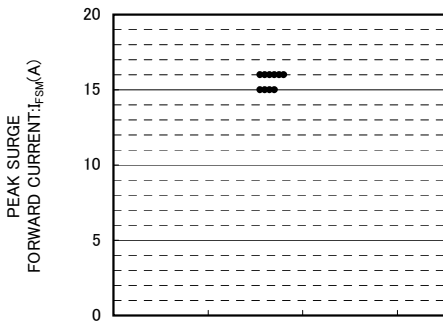
$V_F$  DISPERSION MAP



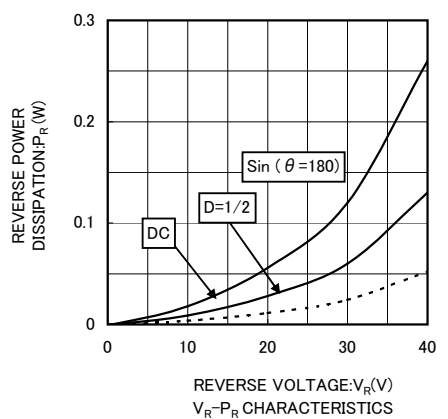
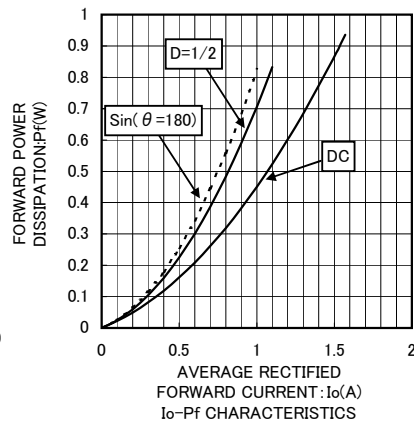
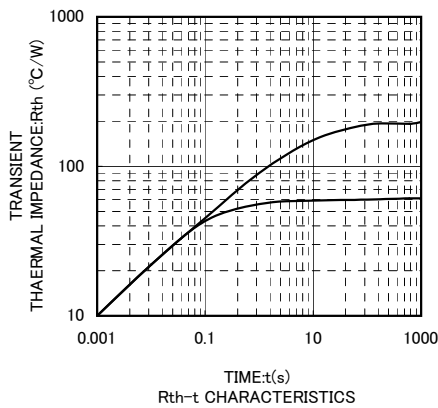
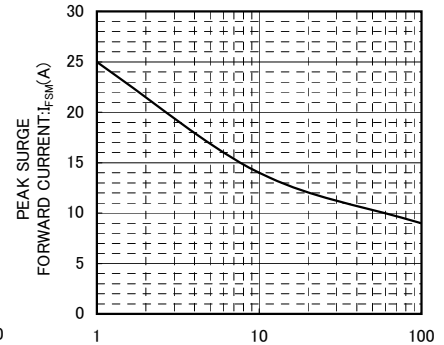
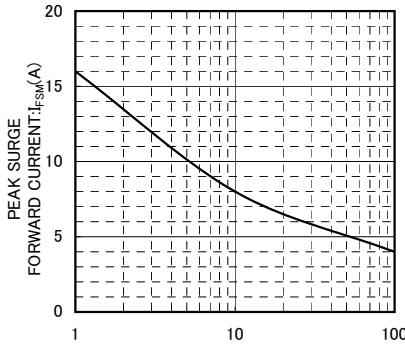
$I_R$  DISPERSION MAP

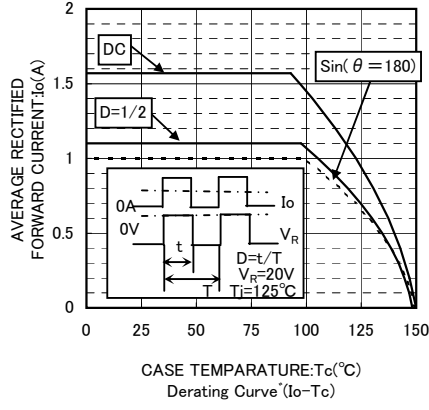
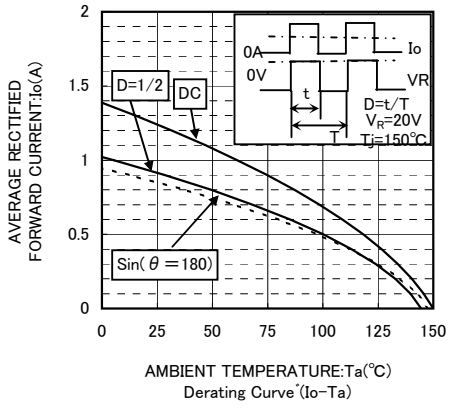


$C_t$  DISPERSION MAP



$I_{FSM}$  DISPERSION MAP





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