

# Shottky barrier diode

## RB491D

### ●Application

Low current rectification

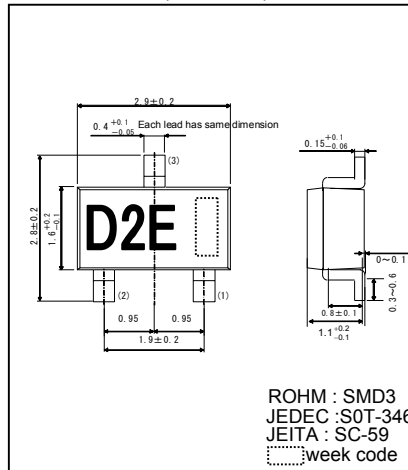
### ●Features

- 1) Small mold type. (SMD3)
- 2) Low  $I_R$
- 3) High reliability.

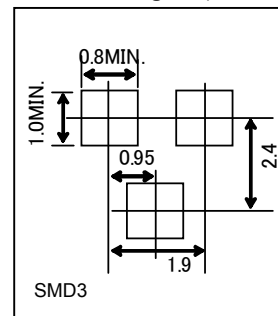
### ●Structure

Silicon epitaxial planar

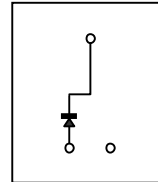
### ●Dimensions (Unit : mm)



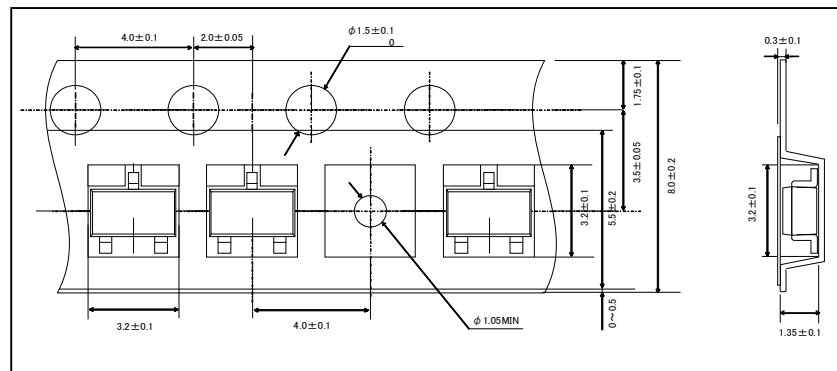
### ●Lead size figure (Unit : mm)



### ●Structure



### ●Taping dimensions (Unit : mm)



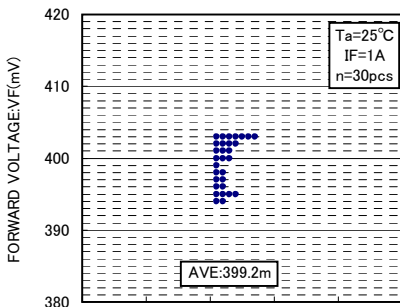
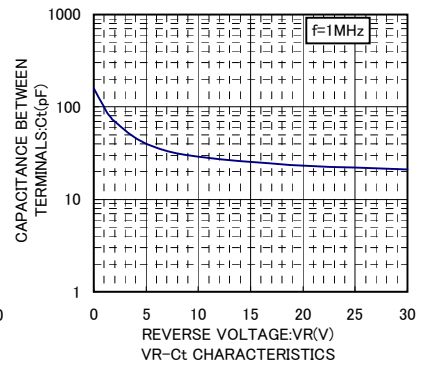
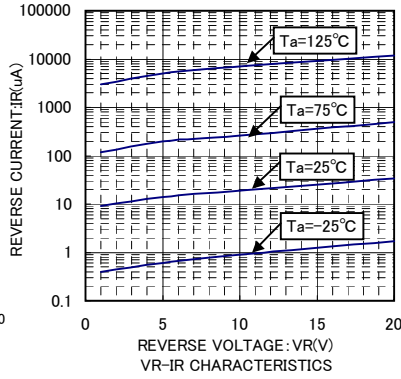
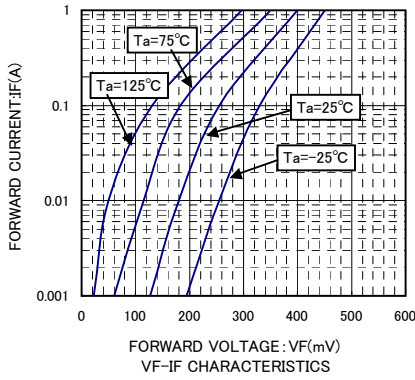
### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	25	V
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward voltage (*1)	$I_o$	1	A
Forward current surge peak (60Hz· 1cyc) (*1)	$I_{FSM}$	3	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

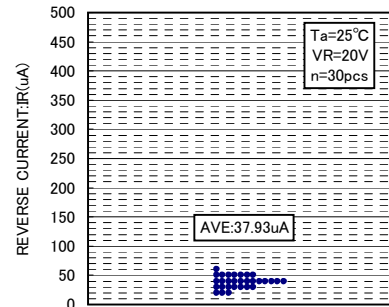
(\*1) Rating of per diode

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

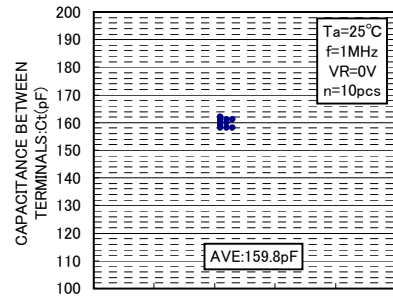
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.45	V	$I_F=1A$
Reverse current	$I_R$	-	-	200	μA	$V_R=20V$



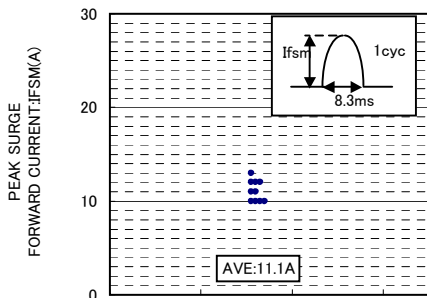
VF DISPERSION MAP



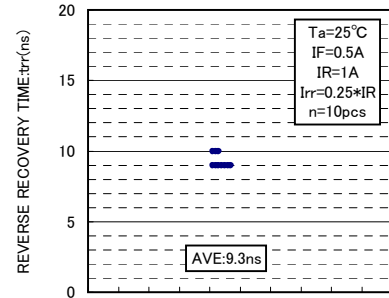
IR DISPERSION MAP



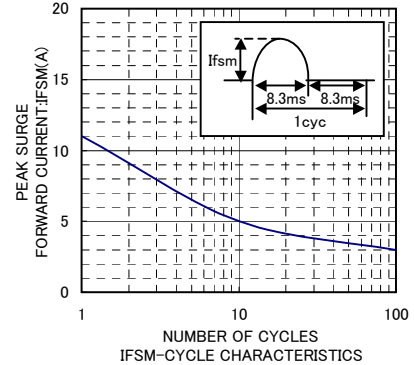
Ct DISPERSION MAP



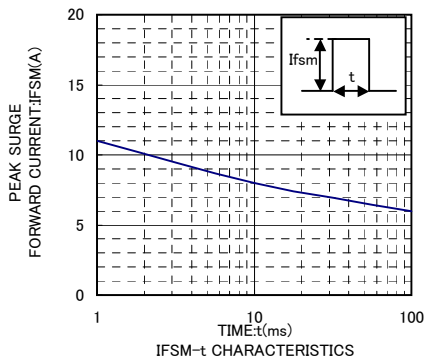
IFSM DISERSION MAP



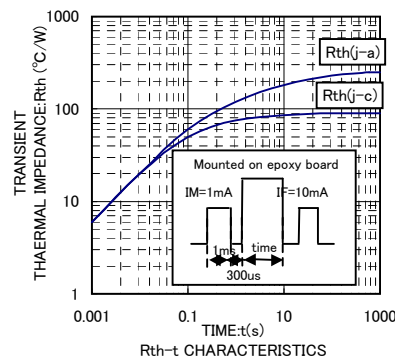
trr DISPERSION MAP



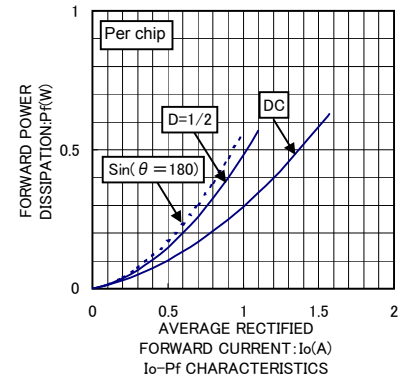
IFSM-CYCLE CHARACTERISTICS



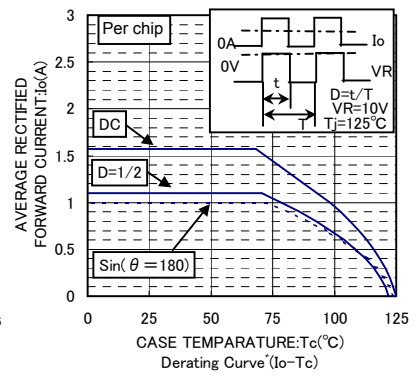
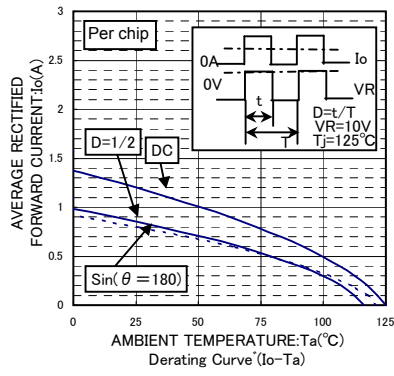
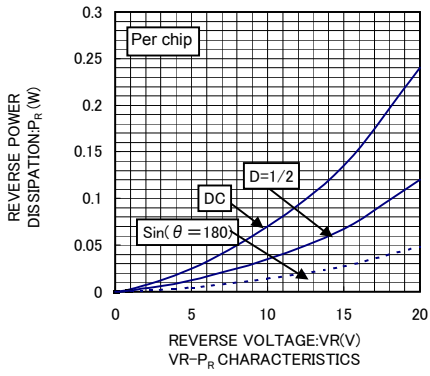
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



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