

## Schottky barrier diode

## RB521CS-30

## ●Applications

Low current rectification

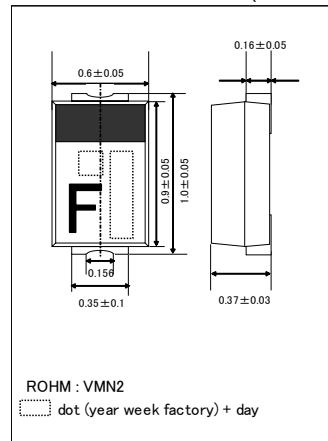
## ●Features

- 1) Ultra Small power mold type (VMN2)
- 2) Low  $V_F$
- 3) High reliability

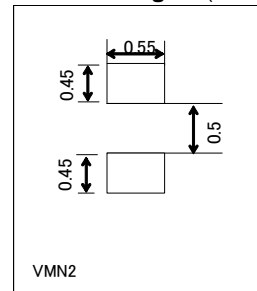
## ●Structure

Silicon epitaxial planer

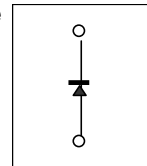
## ●External dimensions (Unit : mm)



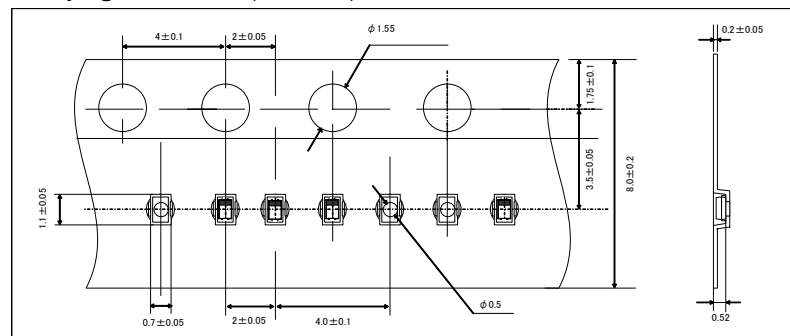
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping dimensions (Unit : mm)



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

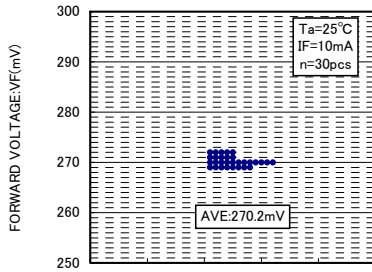
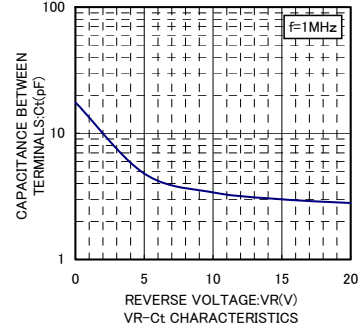
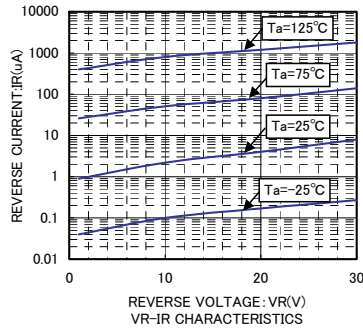
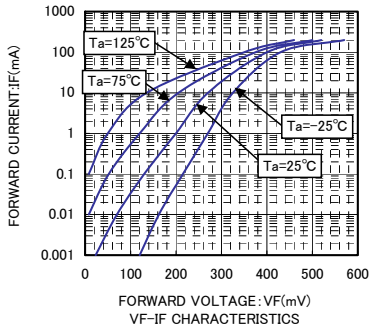
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	30	V
Average rectifier forward current	$I_o$	100	mA
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	500	mA
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

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

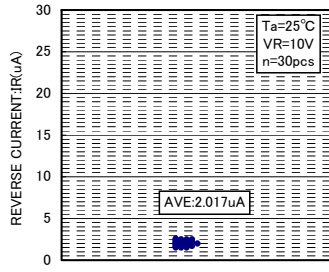
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.35	V	$I_F=10mA$
Reverse current	$I_R$	-	-	10	μA	$V_R=10V$

Diodes

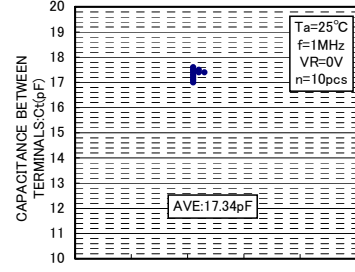
●Electrical characteristic curves



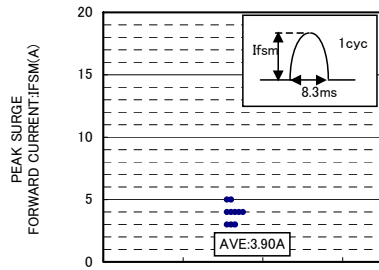
VF DISPERSION MAP



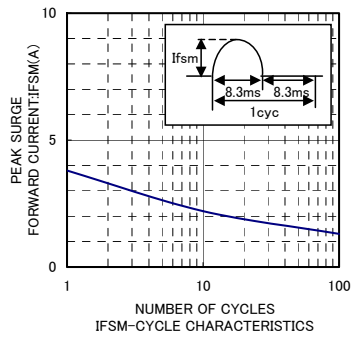
IR DISPERSION MAP



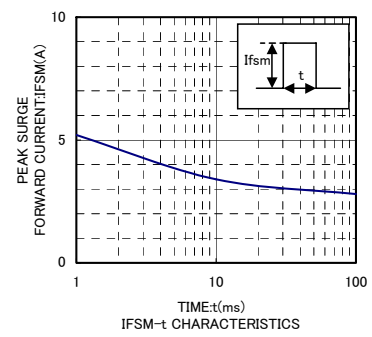
Ct DISPERSION MAP



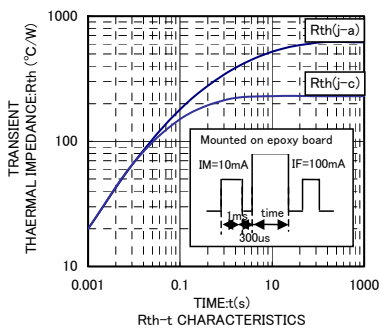
IFSM DISERSION MAP



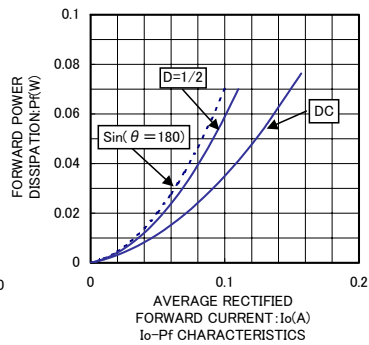
IFSM-CYCLE CHARACTERISTICS



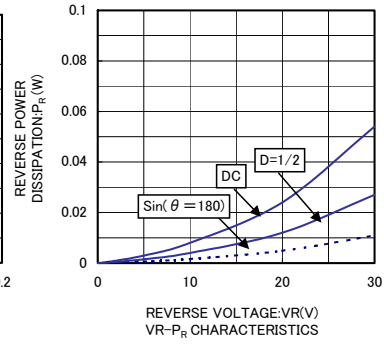
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS

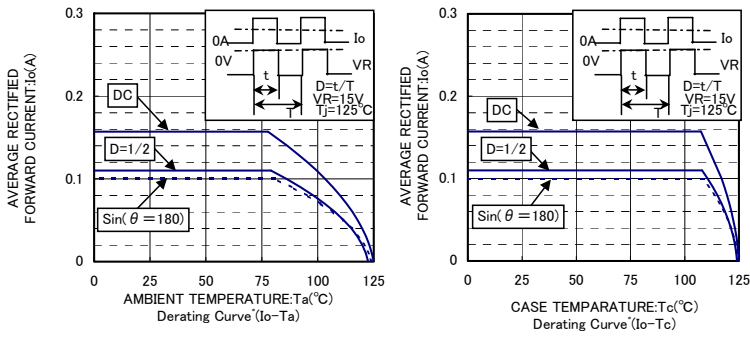


Io-PF CHARACTERISTICS



VR-Pr CHARACTERISTICS

Diodes



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