

## Schottky barrier diode

## RB520S-40

## ●Applications

Rectifying small power

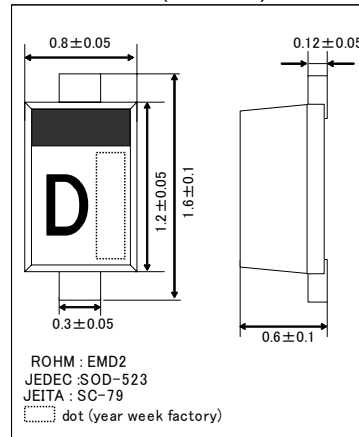
## ●Features

- 1) Ultra small power mold type.  
(EMD2)
- 2) Low IR
- 3) High reliability

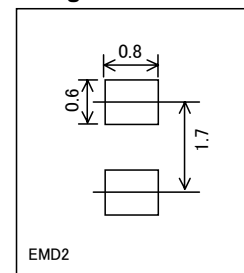
## ●Construction

Silicon epitaxial planar

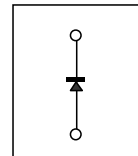
## ●Dimensions (Unit : mm)



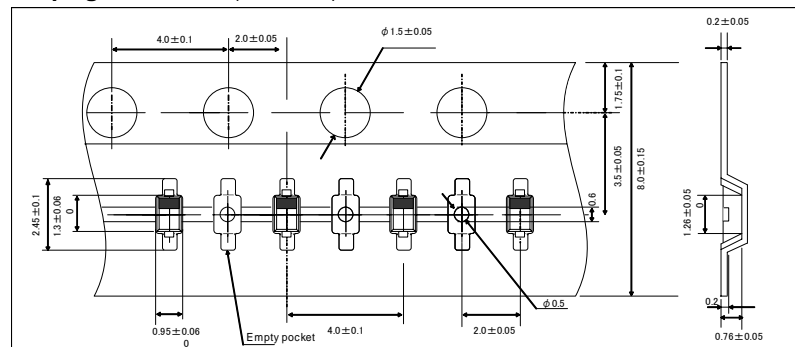
## ●Land size figure



## ●Structure



## ●Taping dimensions (Unit : mm)



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

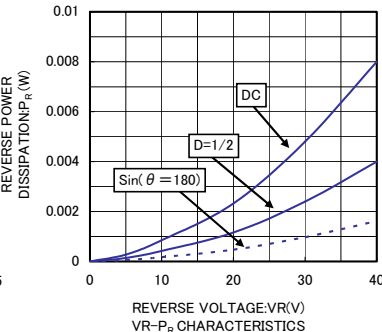
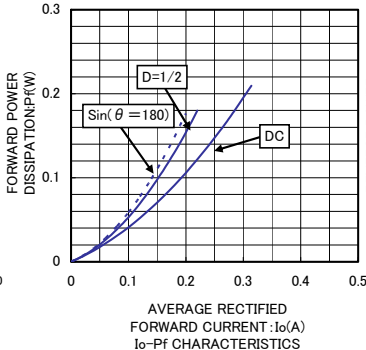
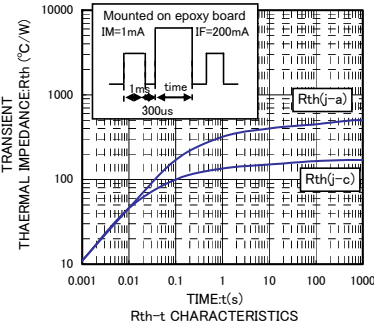
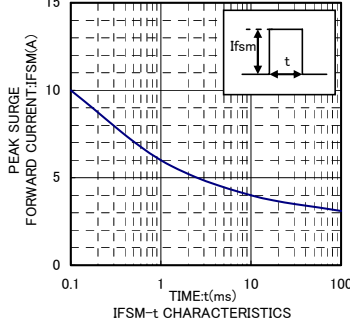
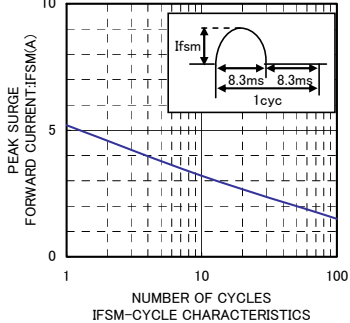
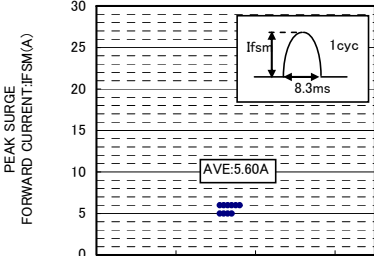
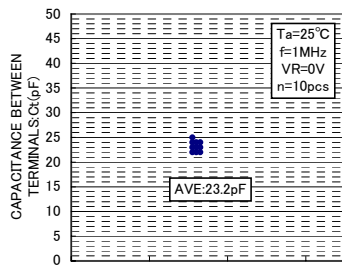
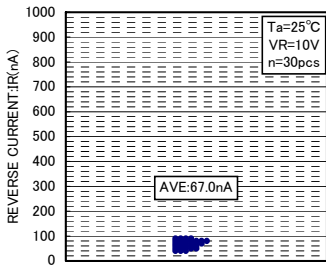
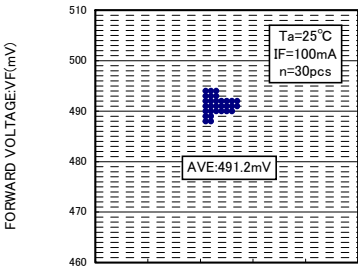
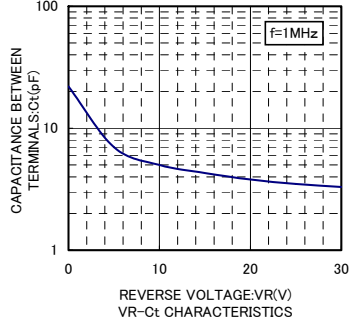
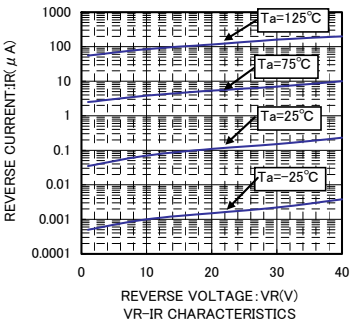
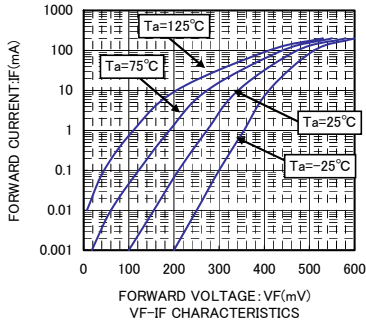
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	200	mA
Forward current surge peak	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

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

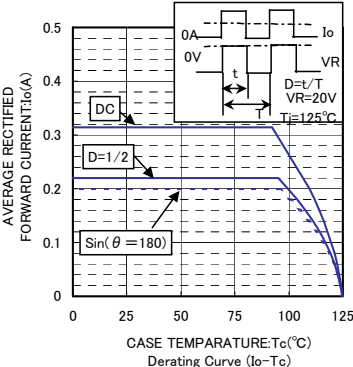
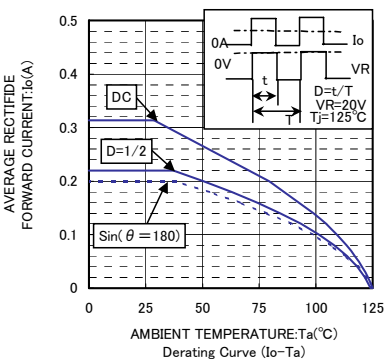
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.39	V	$I_F=10\text{mA}$
	$V_F$	-	-	0.55	V	$I_F=100\text{mA}$
Reverse current	$I_R$	-	-	1	$\mu\text{A}$	$V_R=10\text{V}$
	$I_R$	-	-	10	$\mu\text{A}$	$V_R=40\text{V}$

Diodes

●Electrical characteristic curves



Diodes



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