

## Schottky barrier diode

## RB520S-30

## ● Applications

Low current rectification

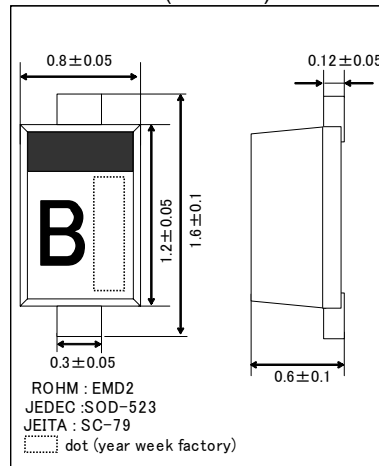
## ● Features

- 1) Ultra Small mold type. (EMD2)
- 2) Low  $I_R$ .
- 3) High reliability.

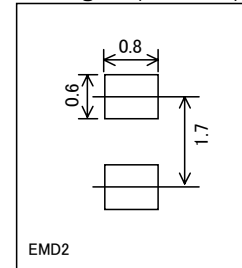
## ● Construction

Silicon epitaxial planar

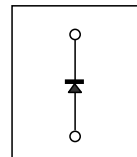
## ● Dimensions (Unit : mm)



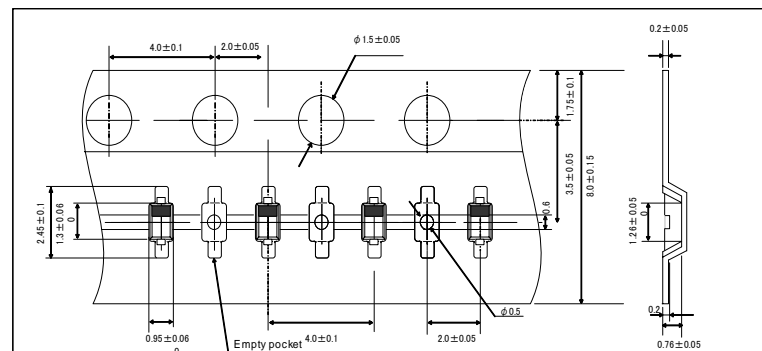
## ● Land size figure (Unit : mm)



## ● Structure



## ● Taping specifications (Unit : mm)

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

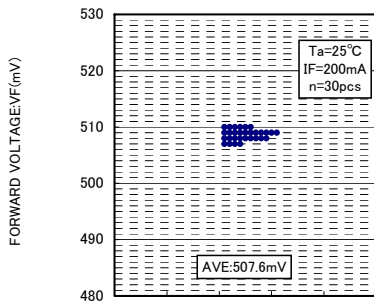
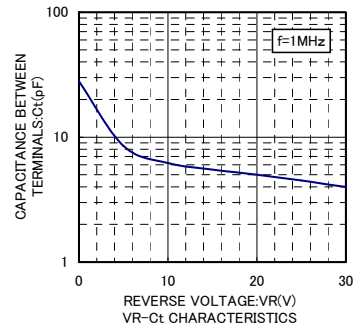
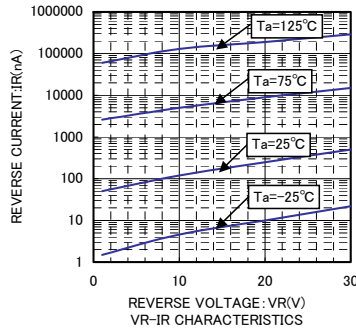
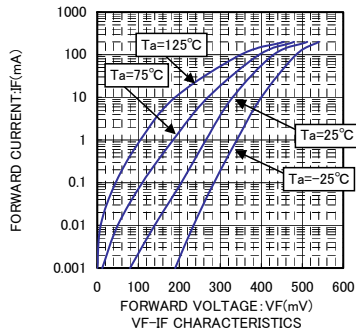
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	200	mA
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

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

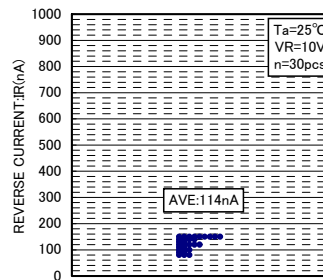
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.6	V	$I_F=200\text{mA}$
Reverse current	$I_R$	-	-	1	$\mu\text{A}$	$V_R=10\text{V}$

Diodes

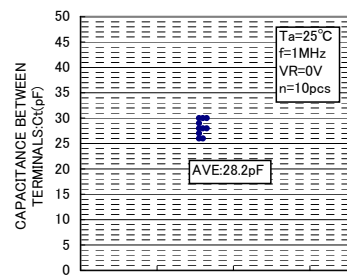
●Electrical characteristic curves (Ta=25°C)



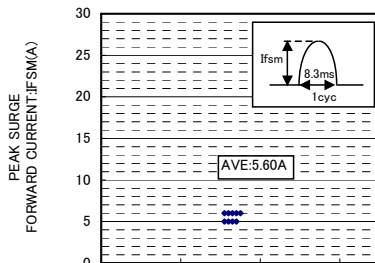
VF DISPERSION MAP



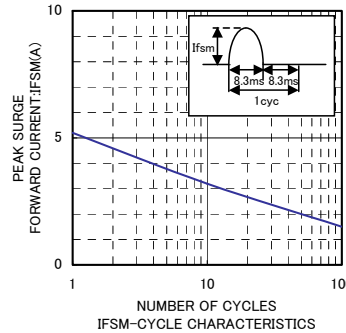
IR DISPERSION MAP



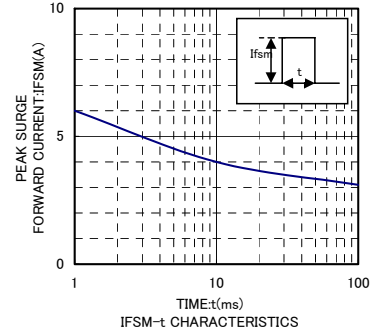
Ct DISPERSION MAP



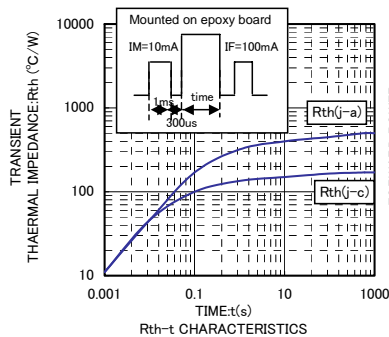
IFSM DISRESION MAP



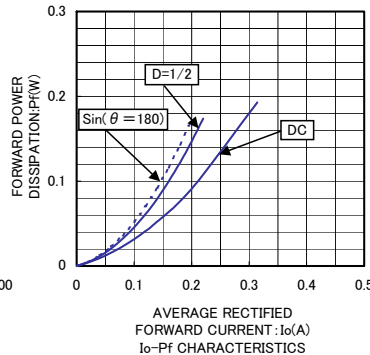
IFSM-CYCLE CHARACTERISTICS



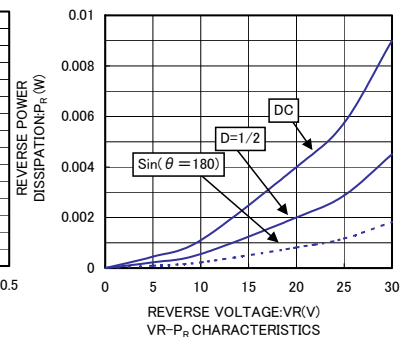
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS

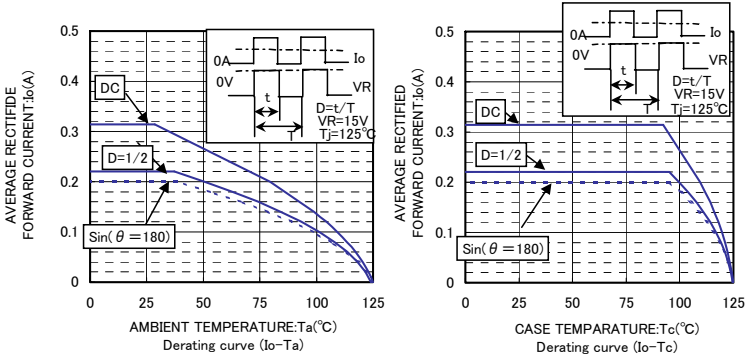


Io-Pf CHARACTERISTICS



VR-Pr CHARACTERISTICS

Diodes



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