

# Schottky barrier diode

# **RB521S-40**

### Applications

Rectifying small power

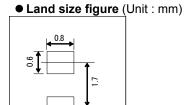
### Features

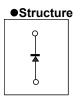
- 1) Ultra small mold type. (EMD2)
- 2) Low V<sub>F</sub>
- 3) High reliability

#### Construction

Silicon epitaxial planar

# ●Dimensions (Unit:mm) 0.12 ±0.05 0.8±0.05 ROHM: EMD2 JEDEC: SOD-523 JEITA: SC-79

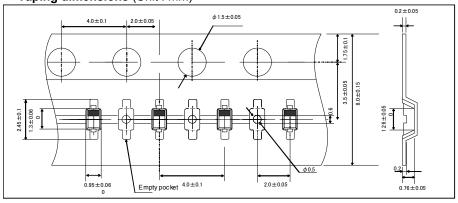




EMD2

# ●Taping dimensions (Unit : mm)

dot (year week factory)



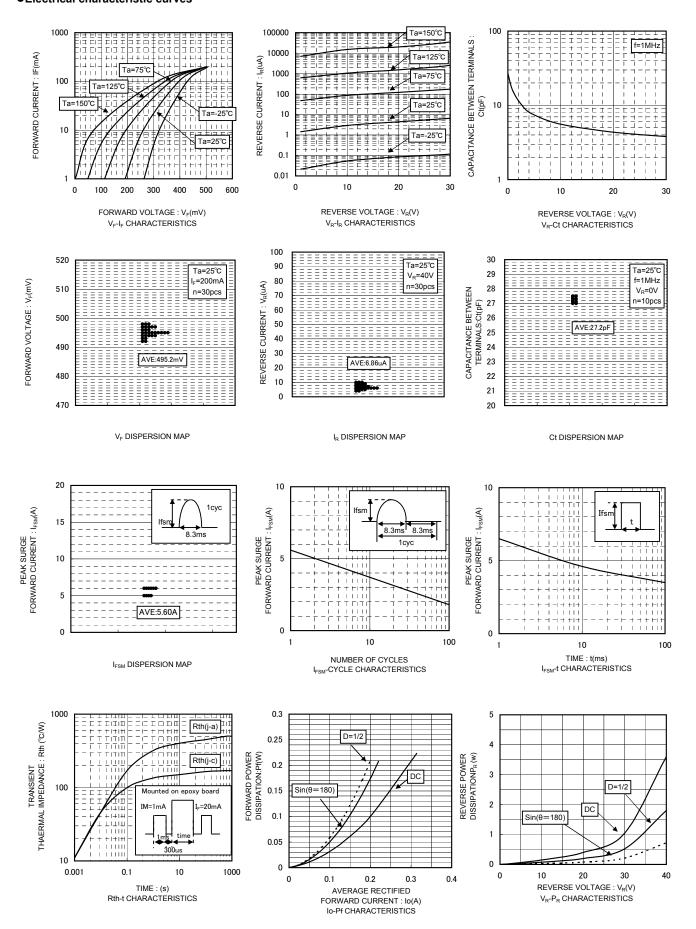
## ●Absolute maximum ratings (Ta=25°C)

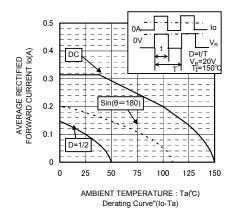
Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	VRM	45	V	
Reverse voltage (DC)	$V_R$	40	V	
Average retified forward current	lo	200	mA	
Forward currnt surge peak(60Hz/1cyc)	I <sub>FSM</sub>	4	Α	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

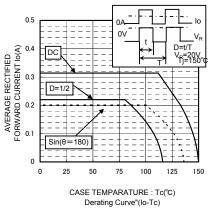
# ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	0.16	0.26	0.30	٧	I <sub>F</sub> =10mA
		0.31	0.395	0.45		I <sub>F</sub> =100mA
		0.41	0.495	0.54		I <sub>F</sub> =200mA
Reverse current	I <sub>R</sub>	-	3.5	20	μΑ	V <sub>R</sub> =10V
		-	13	90		V <sub>R</sub> =40V
ESD break down voltage	ESD	10	-	ı	kV	C=100pF, R=1.5kΩ forward and reverse : 1time

#### •Electrical characteristic curves







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