# Schottky barrier diode **RB521S-40**

# Applications

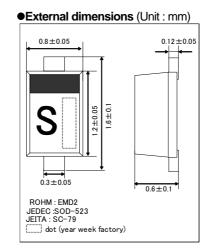
Rectifying small power

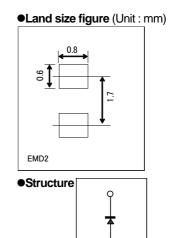
## Features

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

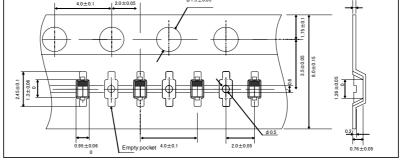
## Construction

Silicon epitaxial planar





● Taping dimensions (Unit: mm)



● Absolute maximum ratings (Ta=25°C)

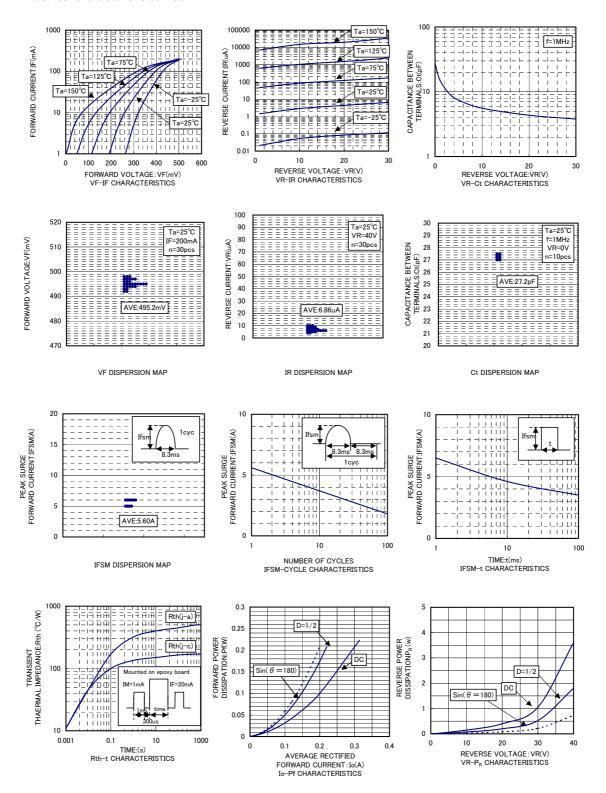
Absolute maximum ratings (1a=25 0)							
Parameter	Symbol	Limits	Unit				
Reverse voltage (repetitive peak)	VRM	45	V				
Reverse voltage (DC)	$V_R$	40	V				
Average rectified forward current	lo	200	mA				
Forward current surge peak (60Hz-1cyc)	I <sub>FSM</sub>	4	Α				
Junction temperature	Tj	150	°C				
Storage temperature	Tstg	-55 to +150	°C				

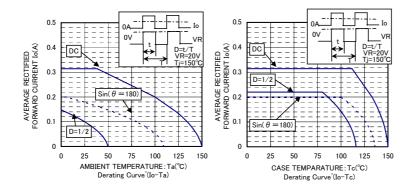
# ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	0.16	0.26	0.30	V	IF=10mA
		0.31	0.40	0.45		IF=100mA
		0.41	0.50	0.54		IF=200mA
Reverse current	IR	•	2.50	20.00	μΑ	VR=10V
		•	6.00	90.00		VR=40V
ESD break down voltage	ESD	10	-	-	L ∨ V	$C=100_PF, R=1.5_K\Omega$
						forward and reverse : 1 time



#### ●Electrical characteristic curves





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