# Schottky barrier diode RB521S-40

Applications

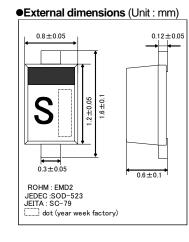
Rectifying small power

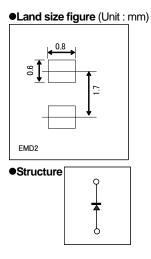
# Features

Ultra small mold type. (EMD2)
 Low VF
 High reliability

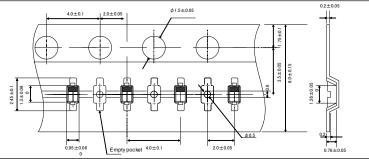
## Construction

Silicon epitaxial planar





# •Taping dimensions (Unit : mm)



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

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

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

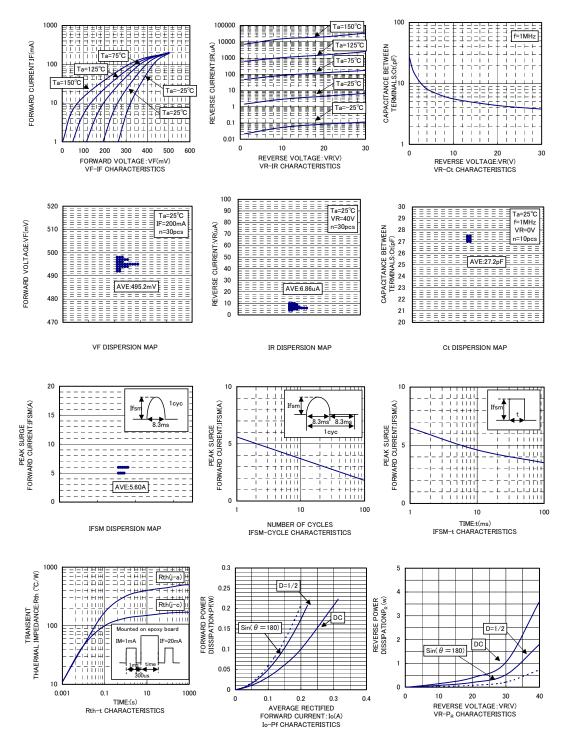
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	0.16	0.26	0.30	V	IF=10mA
		0.31	0.40	0.45		IF=100mA
		0.41	0.50	0.54		IF=200mA
Reverse current	IR	-	2.50	20.00	- uA	VR=10V
		-	6.00	90.00		VR=40V
ESD break down voltage	ESD	10	-	-	⊾V	C=100 <sub>P</sub> F,R=1.5 <sub>K</sub> Ω
						forward and reverse : 1 time



2/3

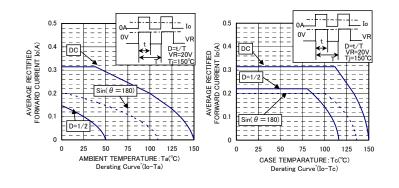
# Diodes

#### •Electrical characteristic curves



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3/3



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