

Schottky barrier diode

RB521S-40

●Applications

Rectifying small power

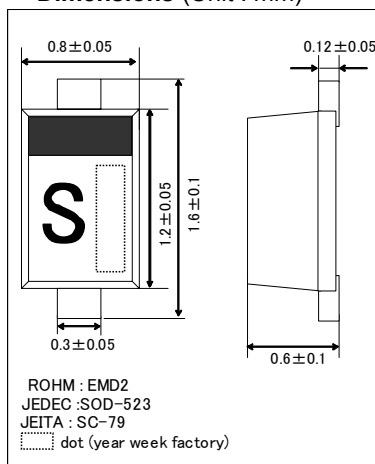
●Features

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

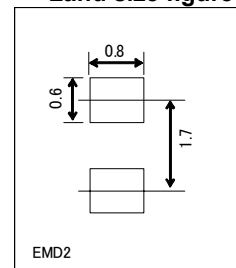
●Construction

Silicon epitaxial planar

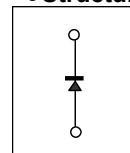
●Dimensions (Unit : mm)



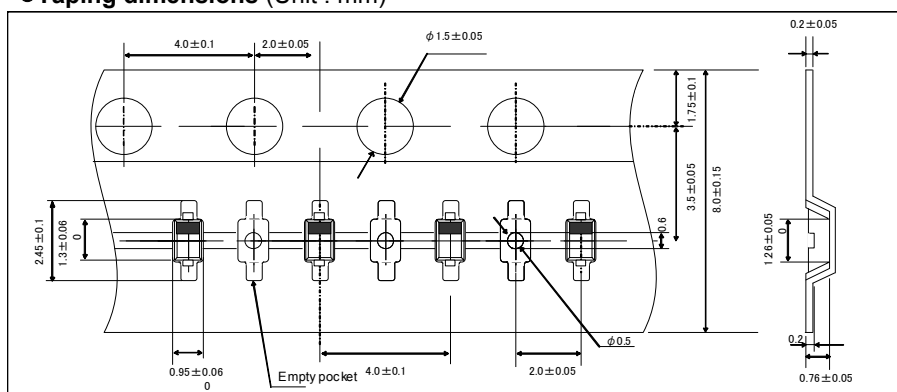
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



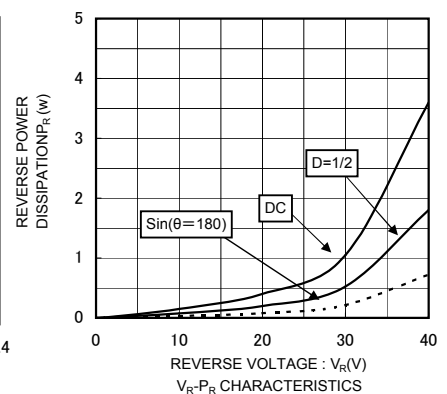
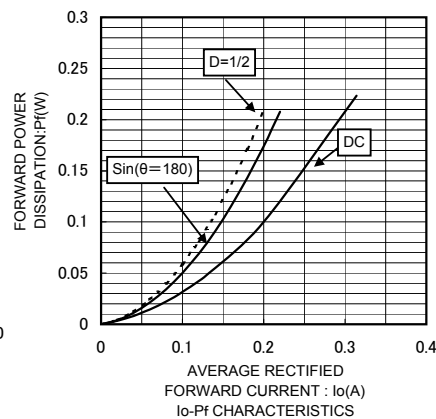
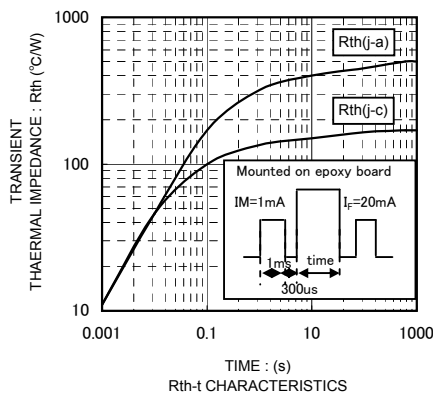
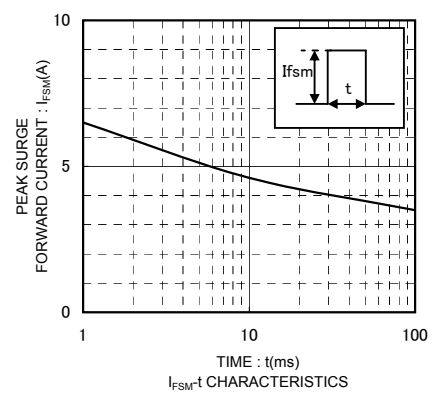
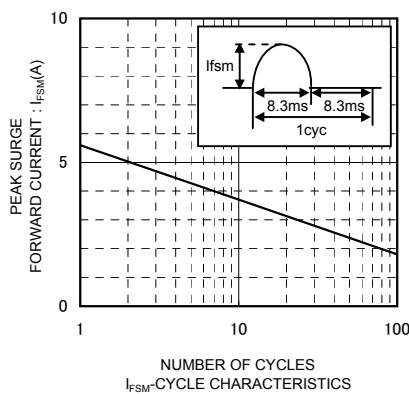
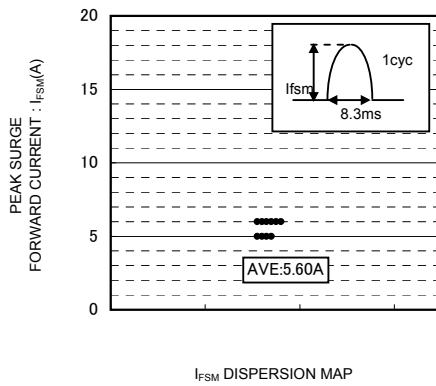
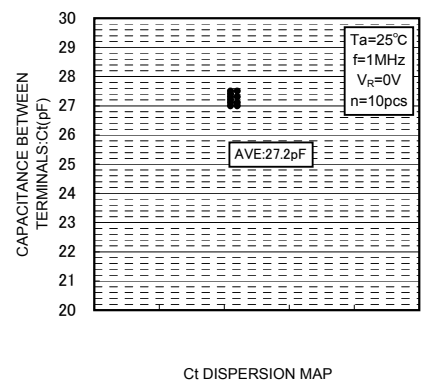
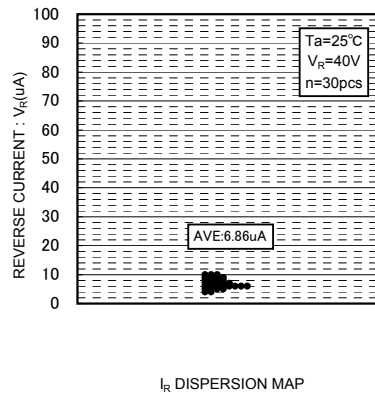
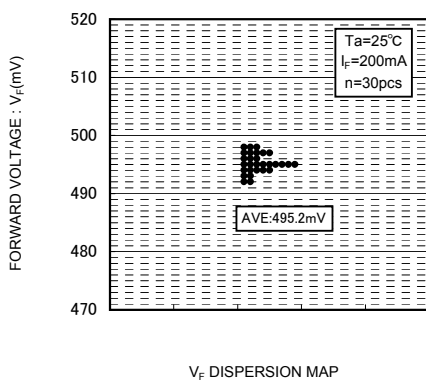
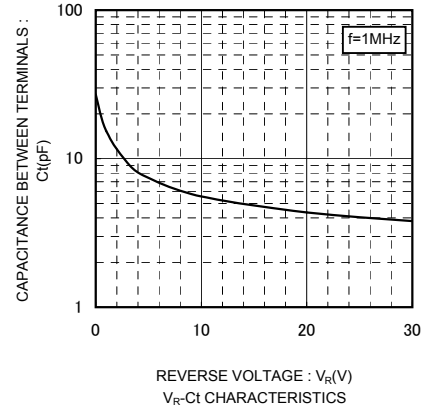
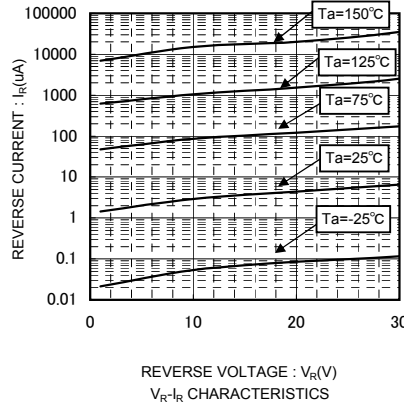
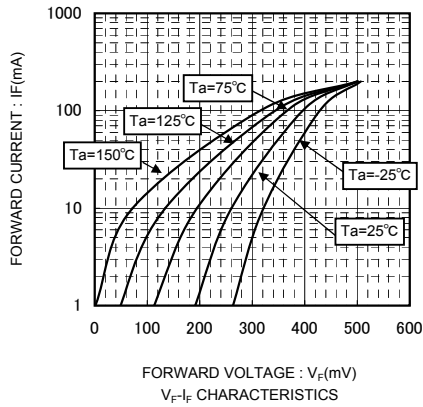
●Absolute maximum ratings (Ta=25°C)

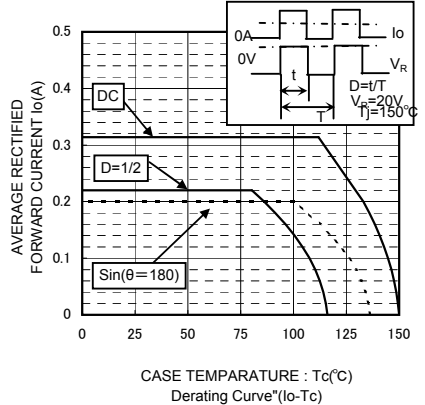
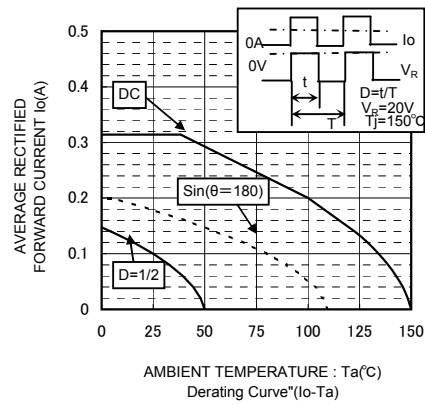
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	45	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_o	200	mA
Forward current surge peak(60Hz/1cyc)	I_{FSM}	4	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	0.16	0.26	0.30	V	$I_F=10mA$
		0.31	0.395	0.45		$I_F=100mA$
		0.41	0.495	0.54		$I_F=200mA$
Reverse current	I_R	-	3.5	20	μA	$V_R=10V$
		-	13	90		$V_R=40V$
ESD break down voltage	ESD	10	-	-	kV	C=100pF, R=1.5k Ω forward and reverse : 1time

●Electrical characteristic curves





Notes

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