

# Schottky barrier diode

RB521S-40

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

●Applications

Rectifying small power

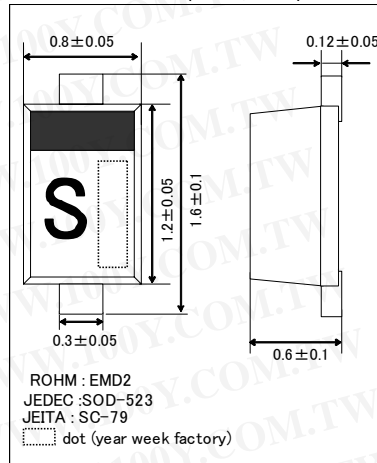
●Features

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

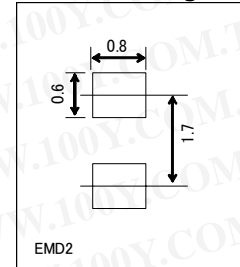
●Construction

Silicon epitaxial planar

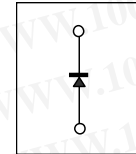
●Dimensions (Unit : mm)



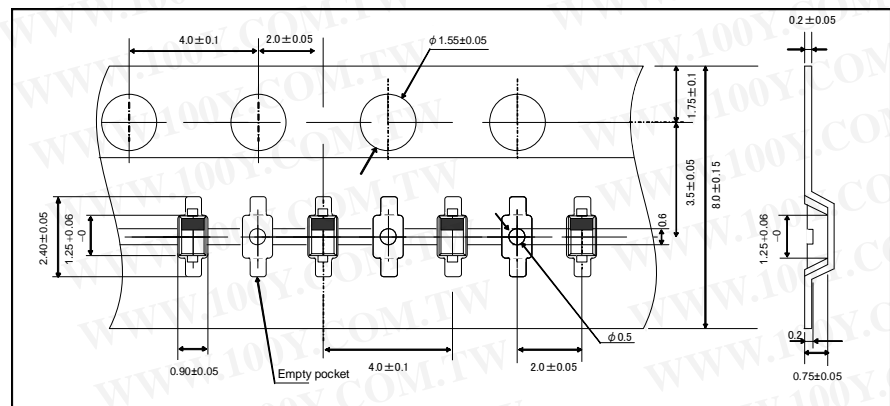
● Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



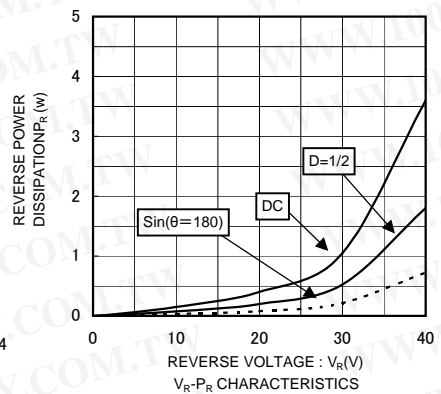
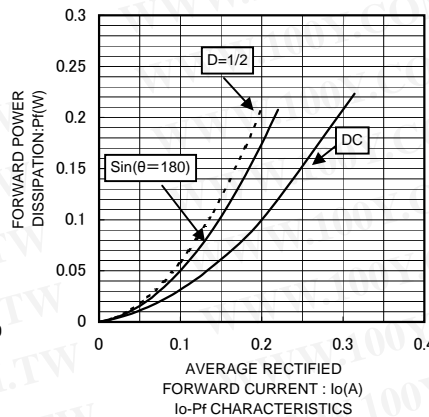
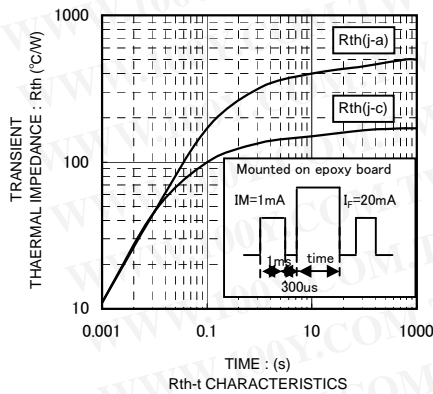
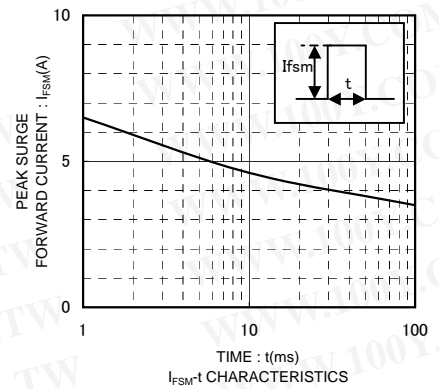
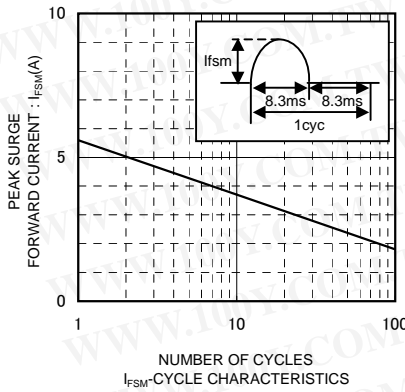
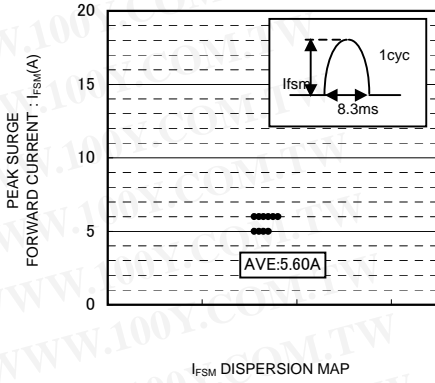
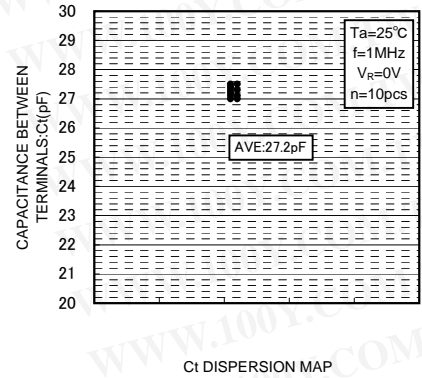
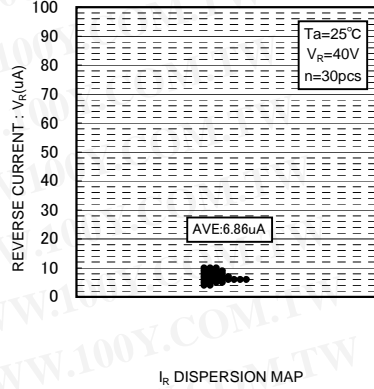
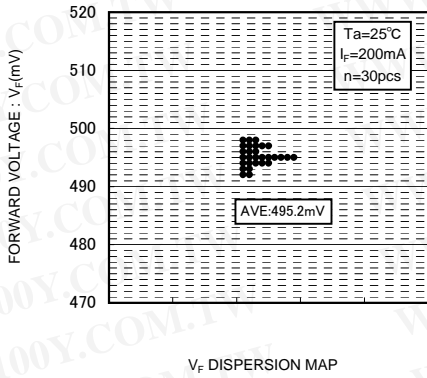
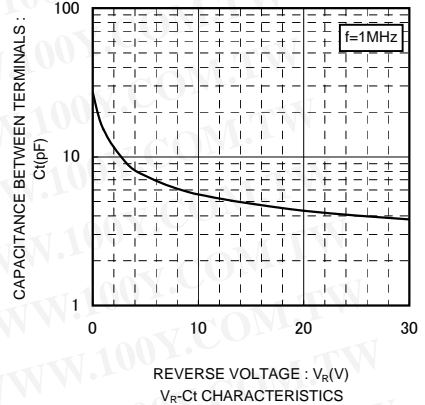
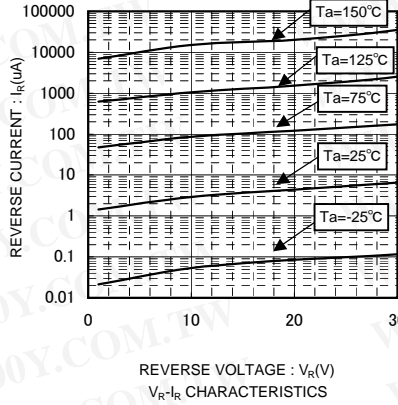
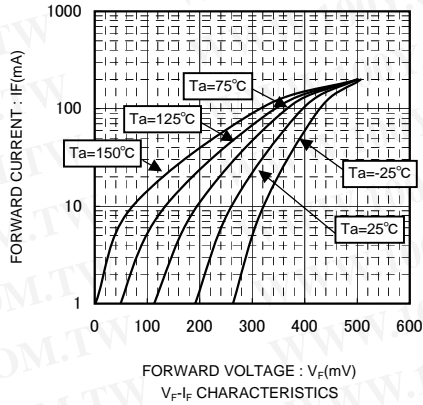
●Absolute maximum ratings (Ta=25°C)

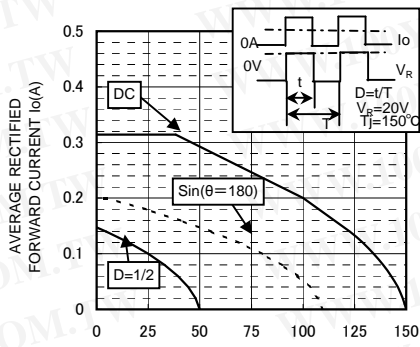
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	VRM	45	V
Reverse voltage (DC)	VR	40	V
Average rectified forward current	Io	200	mA
Forward current surge peak(60Hz/1cyc)	IFSM	4	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

●Electrical characteristic (Ta=25°C)

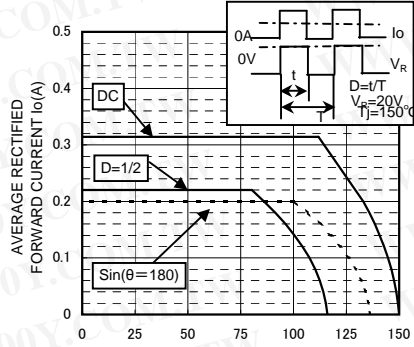
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	VF	0.16	0.26	0.30	V	IF=10mA
		0.31	0.395	0.45		IF=100mA
		0.41	0.495	0.54		IF=200mA
Reverse current	IR	-	3.5	20	μA	VR=10V
		-	13	90		VR=40V
ESD break down voltage	ESD	10	-	-	kV	C=100pF, R=1.5kΩ forward and reverse : 1time

●Electrical characteristic curves





AMBIENT TEMPERATURE :  $T_a(^{\circ}C)$   
Derating Curve\*( $I_o$ - $T_a$ )



CASE TEMPERATURE :  $T_c(^{\circ}C)$   
Derating Curve\*( $I_o$ - $T_c$ )

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