

# Schottky Barrier Diode

## RB520SM-40

●Applications

Small current rectification

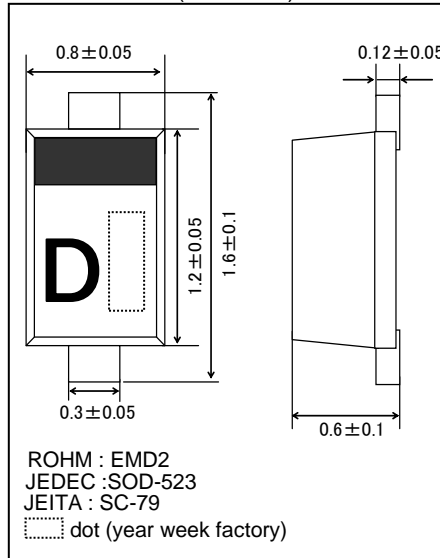
●Features

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

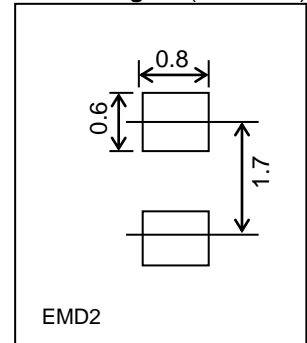
●Construction

Silicon epitaxial

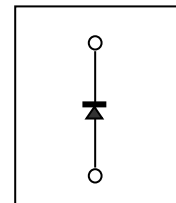
●Dimensions (Unit : mm)



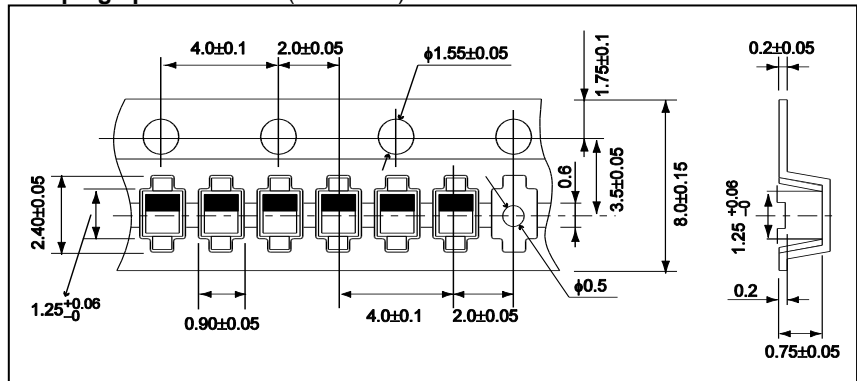
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

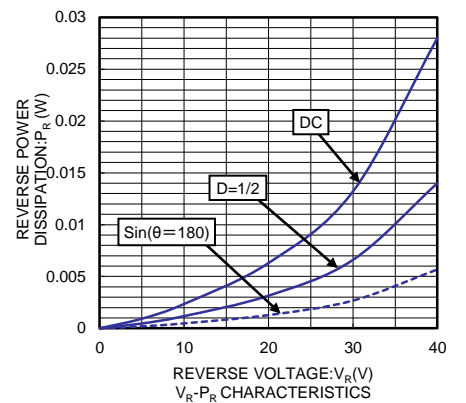
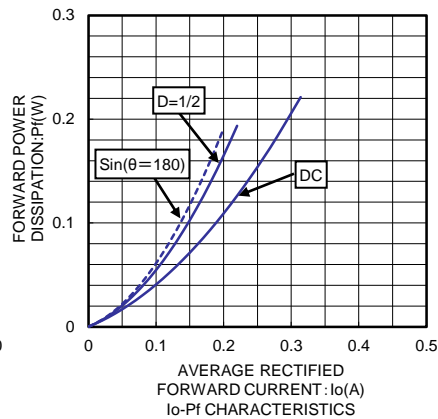
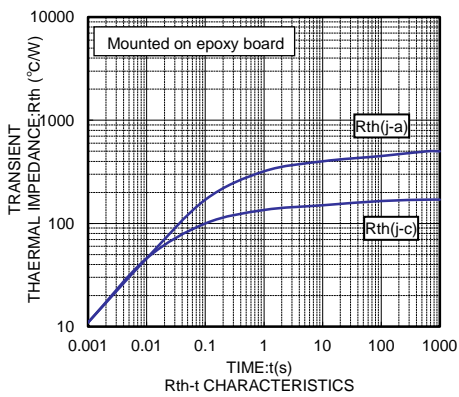
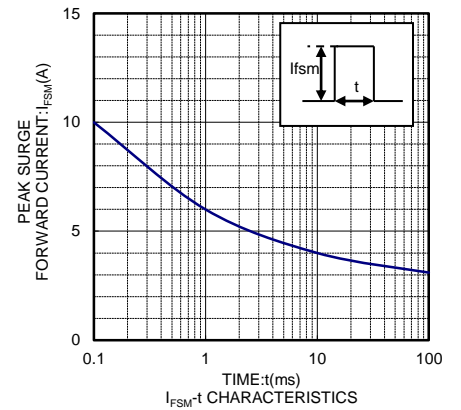
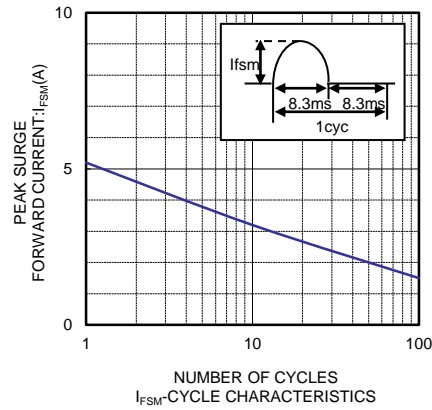
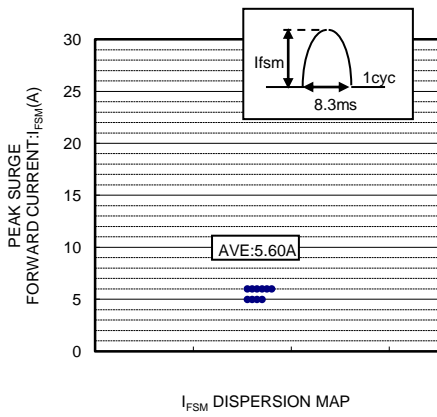
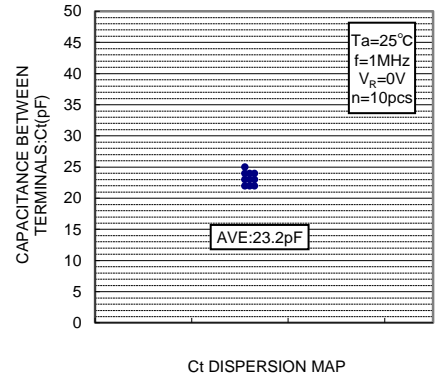
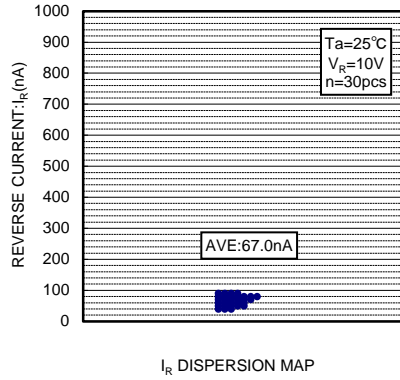
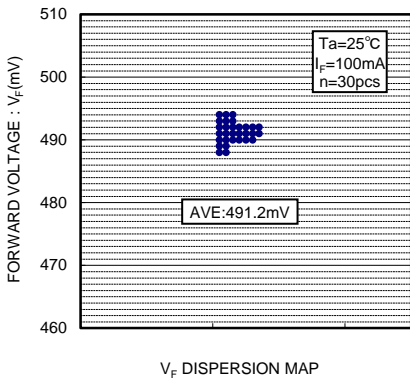
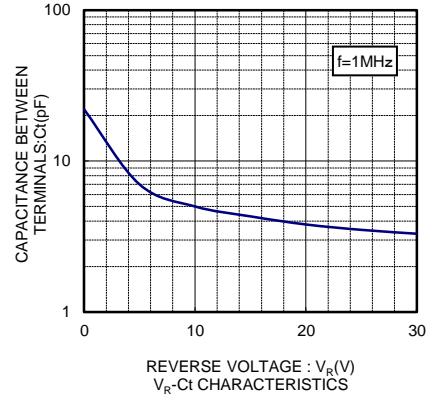
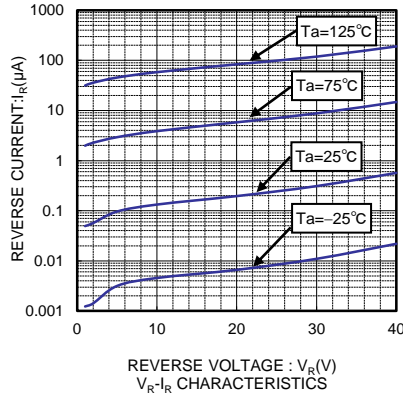
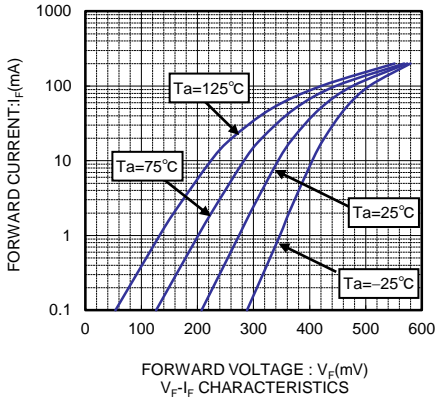


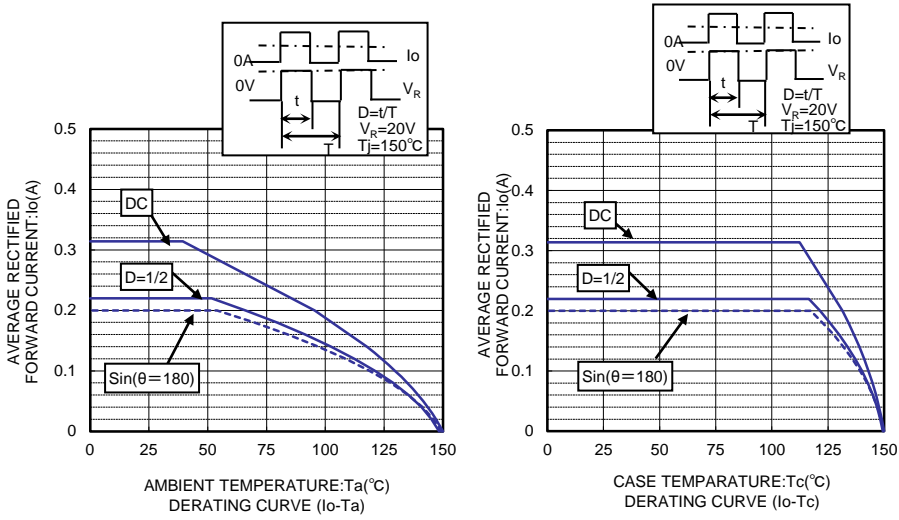
●Absolute maximum ratings (Ta=25°C)

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

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	-	0.39	V	$I_F=10mA$
	$V_{F2}$	-	-	0.55	V	$I_F=100mA$
Reverse current	$I_{R1}$	-	-	1	μA	$V_R=10V$
	$I_{R2}$	-	-	10	μA	$V_R=40V$





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