

Schottky barrier diode

RB520CS-30

● Applications

Low current rectification

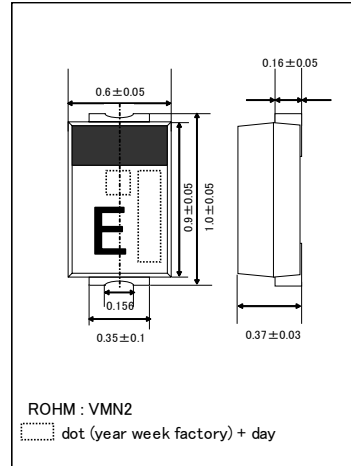
● Features

- 1) Ultra Small power mold type. (VMN2)
- 2) Low I_R
- 3) High reliability.

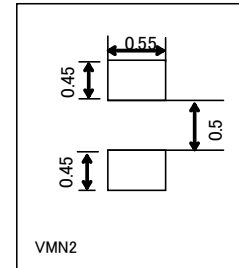
● Construction

Silicon epitaxial planar

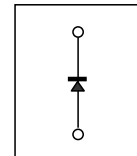
● External dimensions (Unit : mm)



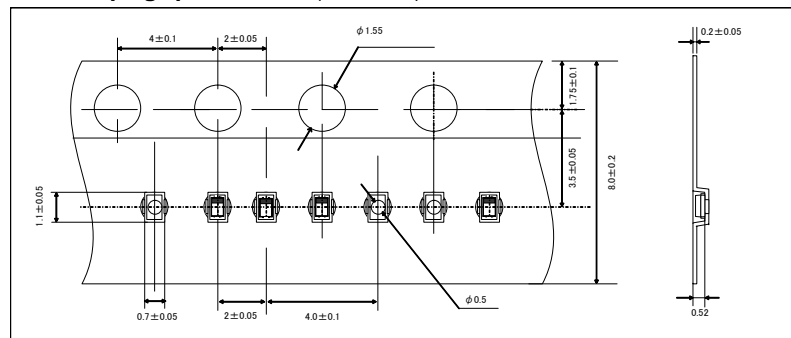
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)



● Absolute maximum ratings ($T_a=25^\circ\text{C}$)

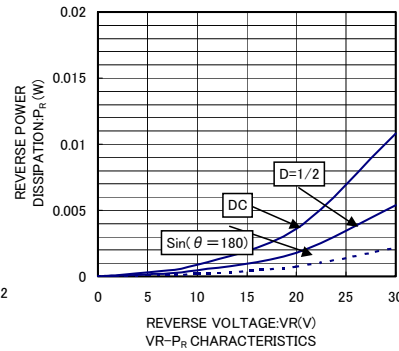
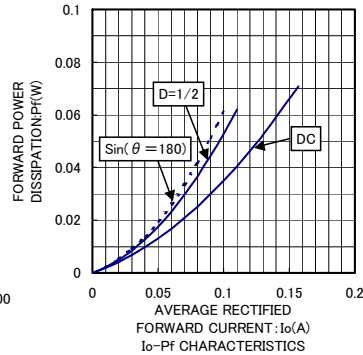
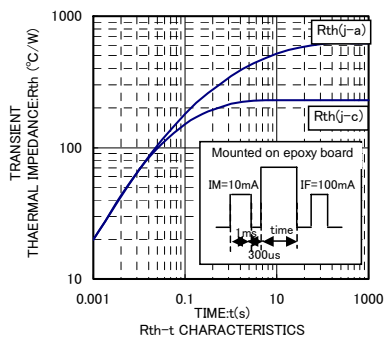
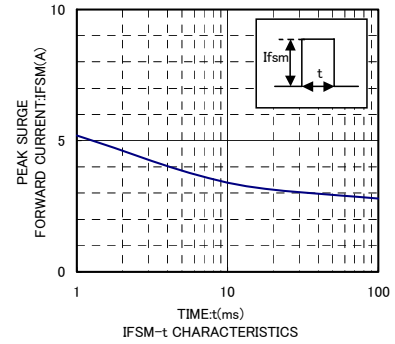
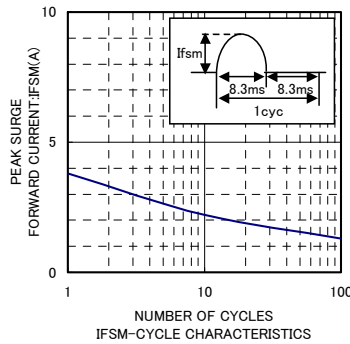
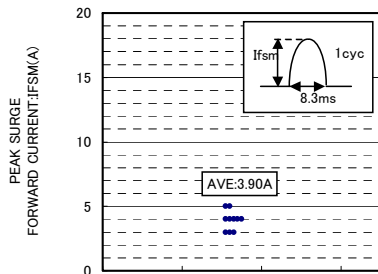
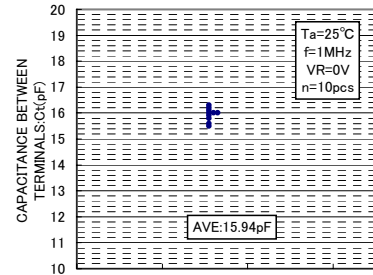
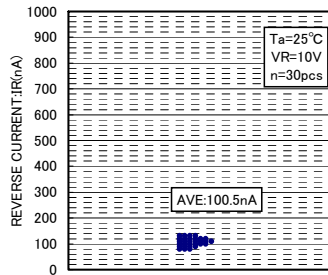
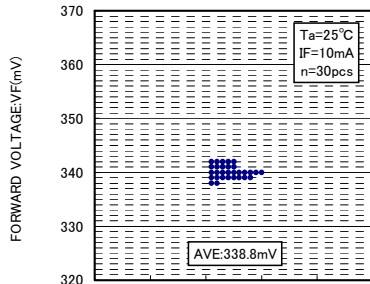
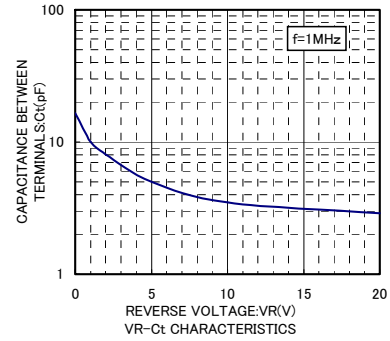
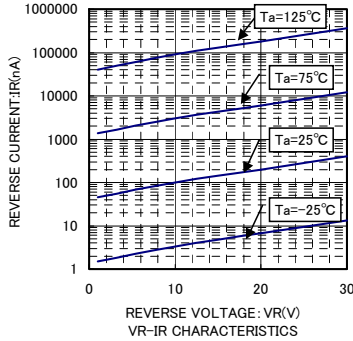
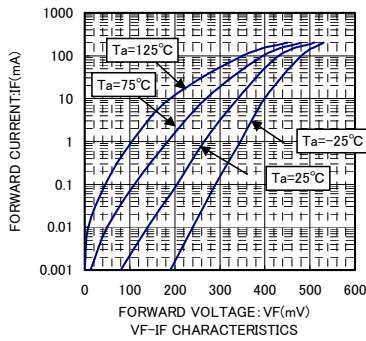
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_O	100	mA
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	500	mA
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +150	$^\circ\text{C}$

● Electrical characteristics ($T_a=25^\circ\text{C}$)

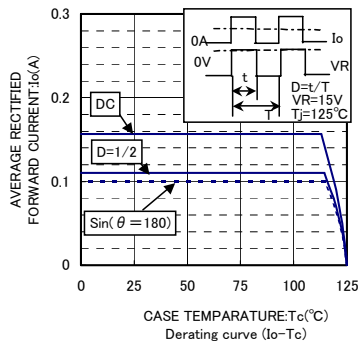
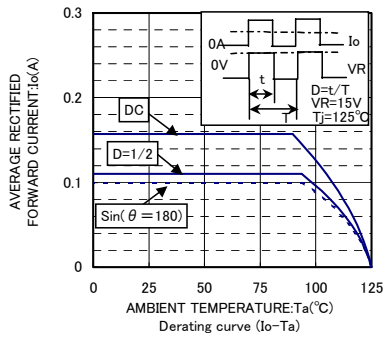
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.45	V	$I_F=10\text{mA}$
Reverse current	I_R	-	-	0.5	μA	$V_R=10\text{V}$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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