

Diodes

# Schottky barrier diode

## RB550EA

●Applications

Low current rectification

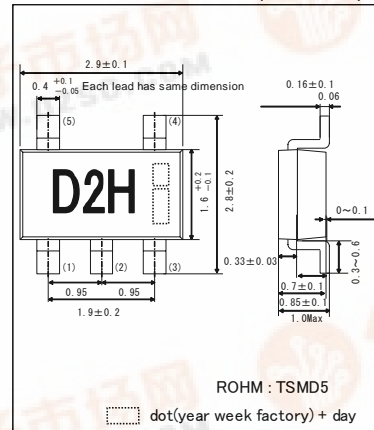
●Features

- 1) Small mold type. (TSMD5)
- 2) Low  $V_F$ , low  $I_R$ .
- 3) High reliability.

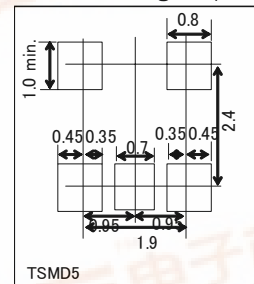
●Construction

Silicon epitaxial planar

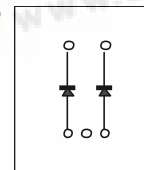
● External dimensions (Unit : mm)



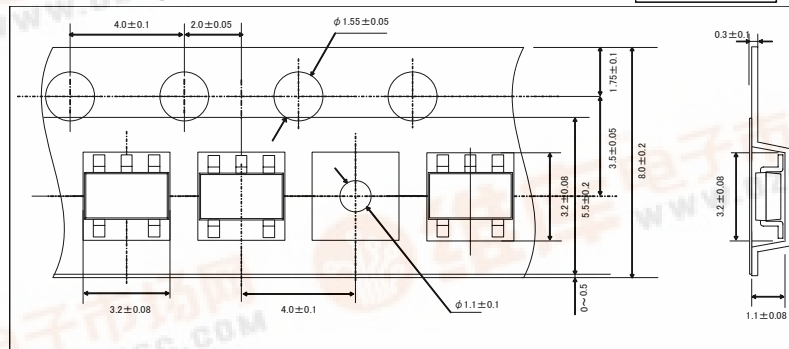
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	$I_o$	0.7	A
Forward current surge peak (t=1msec)	$I_{FSM}$	12	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

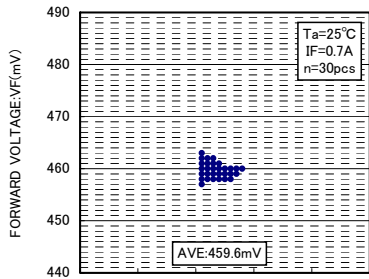
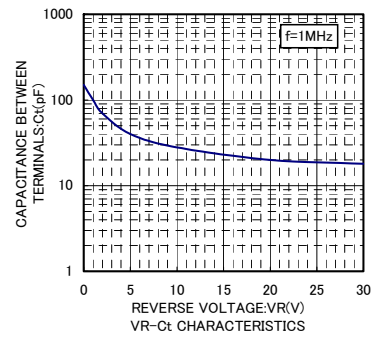
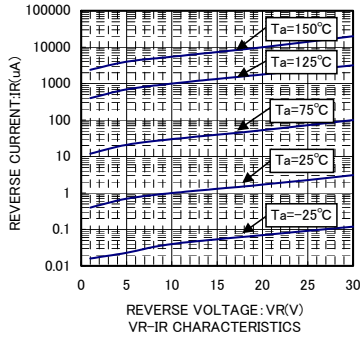
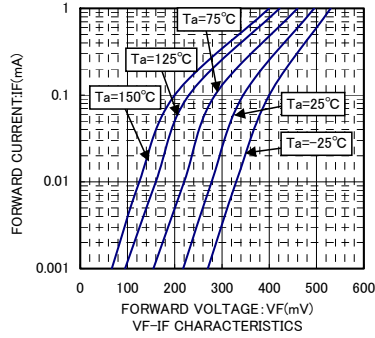
(\*1) Rating of per diode.

●Electrical characteristics (Ta=25°C, Rating of per diode.)

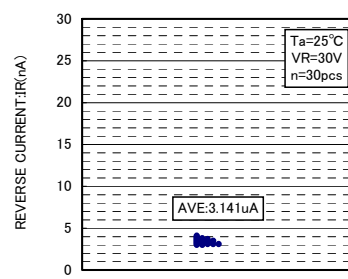
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	0.39	0.45	0.49	V	$I_F=0.7A$
Reverse current	IR1	-	1	30.00	μA	$V_R=10V$
	IR2	-	5.0	50	μA	$V_R=30V$
ESD break down voltage	ESD	15	-	-	KV	C=100pF,R=1.5KΩ Forwad and reverse : 1 times

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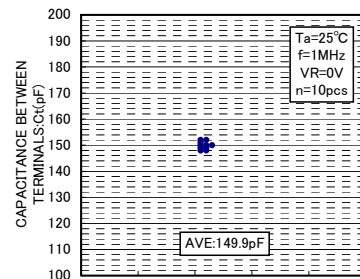
●Electrical characteristic curves (Ta=25°C)



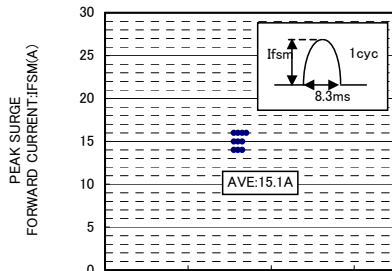
VF DISPERSION MAP



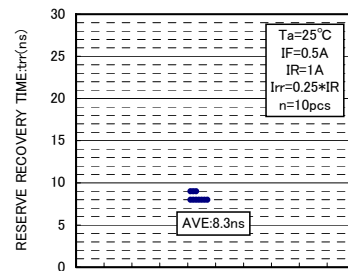
IR DISPERSION MAP



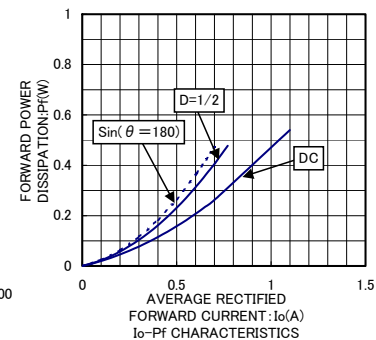
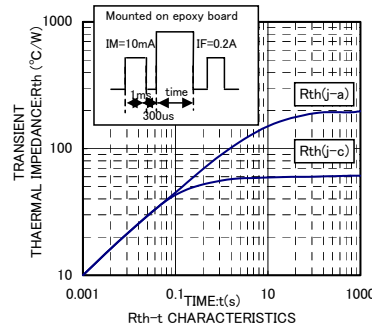
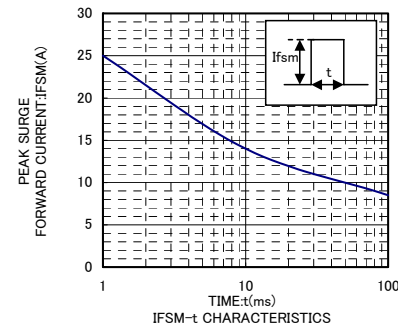
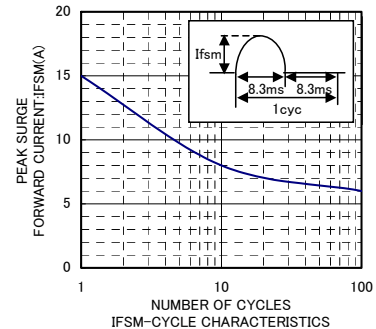
Ct DISPERSION MAP



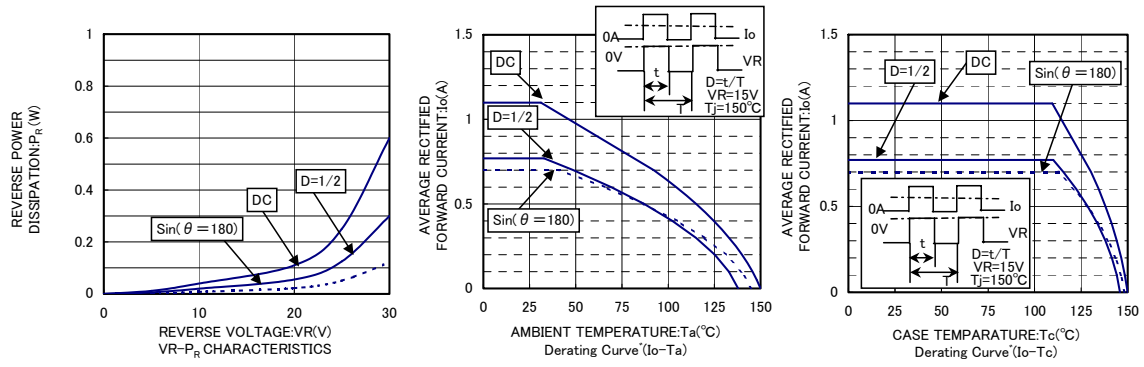
IFSM DISRESION MAP



trr DISPERSION MAP



Diodes



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