

# Schottky Barrier Diode

## RB550EA

●Applications

Low current rectification

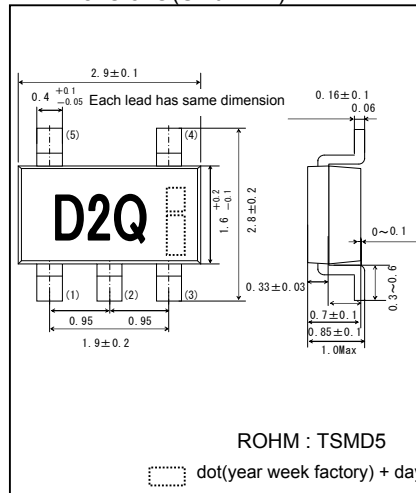
●Features

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

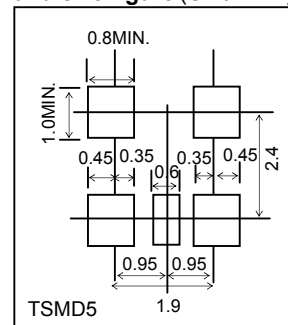
●Construction

Silicon Epitaxial Planer

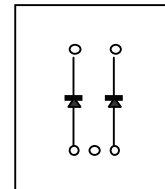
●Dimensions (Unit : mm)



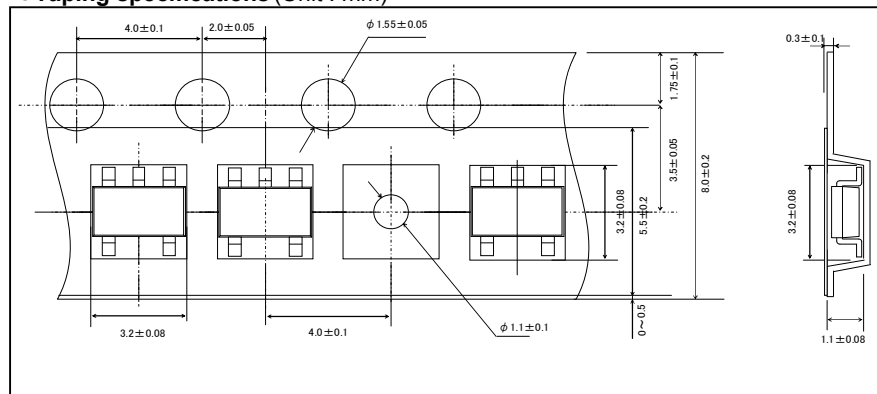
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



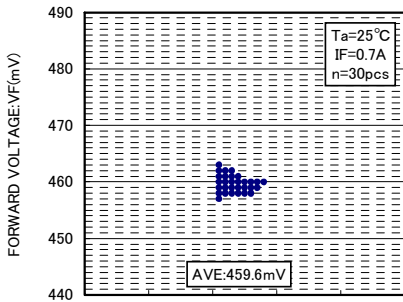
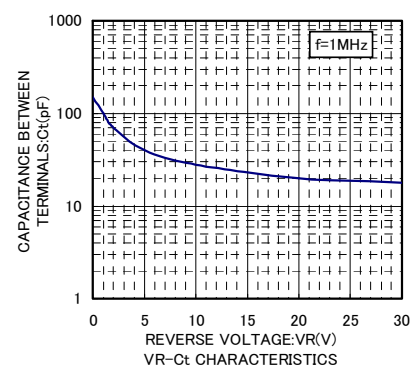
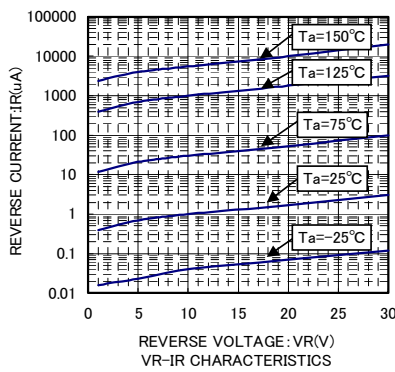
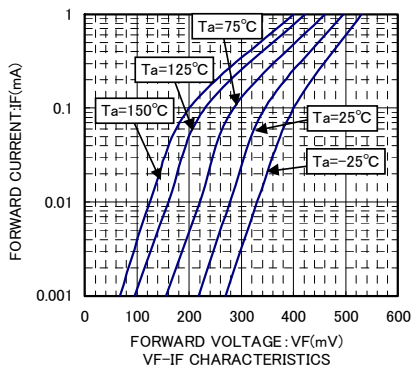
●Absolute maximum ratings (Ta=25°C)

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

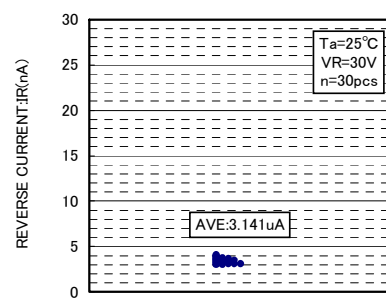
(\*1) Rating of per diode.

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

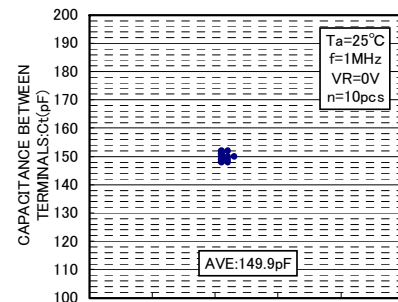
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	0.39	0.45	0.49	V	$I_F=0.7A$
Reverse current	IR1	-	1	30.00	μA	$V_R=10V$
	IR2	-	5.0	50	μA	$V_R=30V$
ESD break down voltage	ESD	15	-	-	KV	$C=100pF, R=1.5K\Omega$ Forward and reverse : 1 times



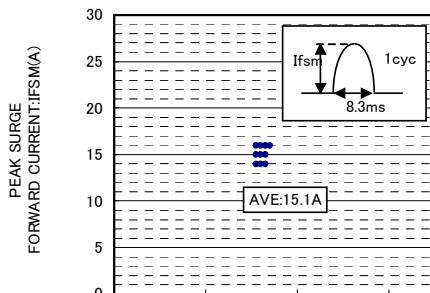
VF DISPERSION MAP



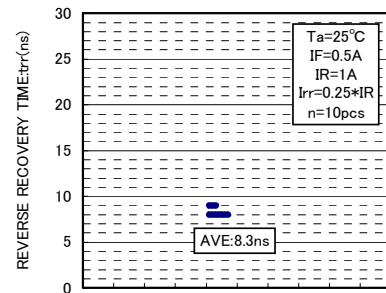
IR DISPERSION MAP



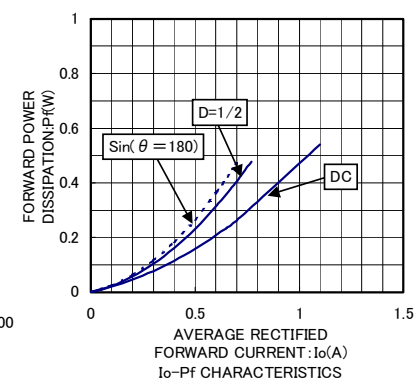
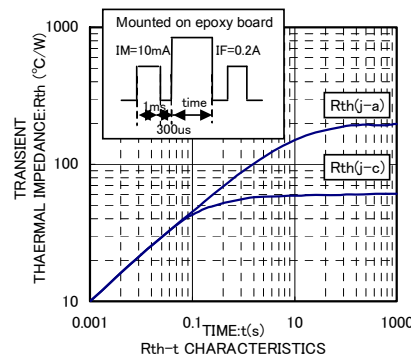
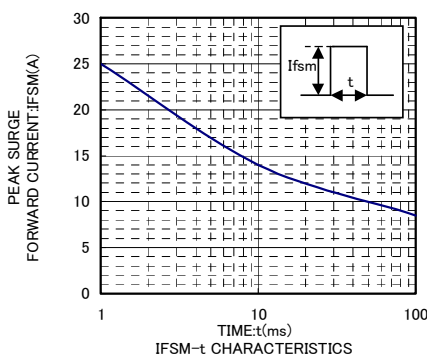
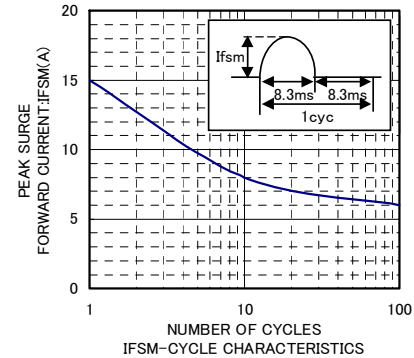
Ct DISPERSION MAP

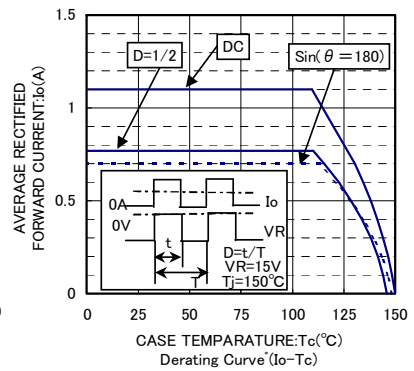
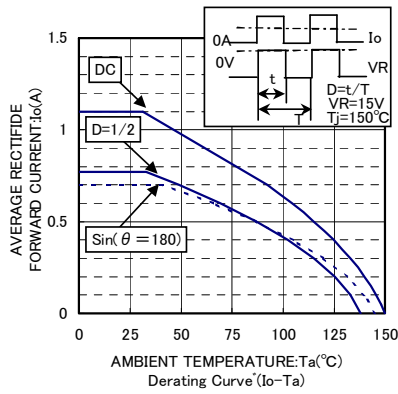
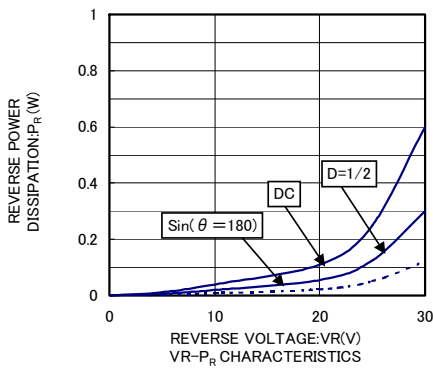


IFSM DISPERSION MAP



trr DISPERSION MAP





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