

Schottky Barrier Diode

RB550SS-30

● **Applications**

Small current rectification

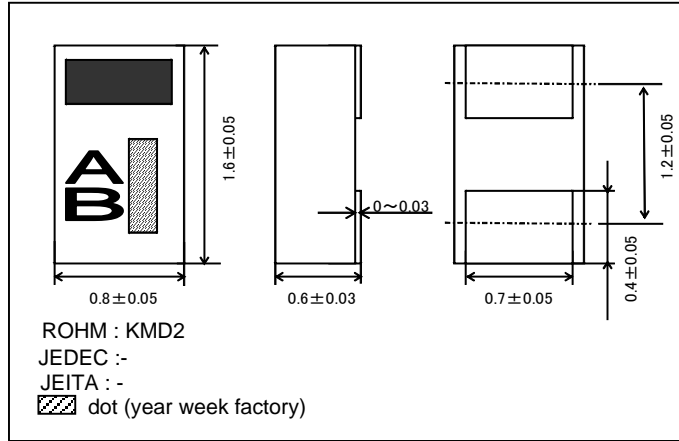
● **Features**

- 1) Small mold type (KMD2)
- 2) High reliability
- 3) Low I_R

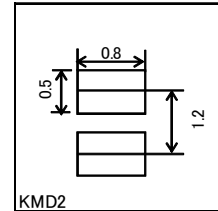
● **Construction**

Silicon epitaxial planer

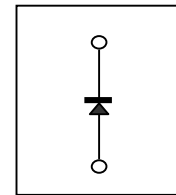
● **Dimensions (Unit : mm)**



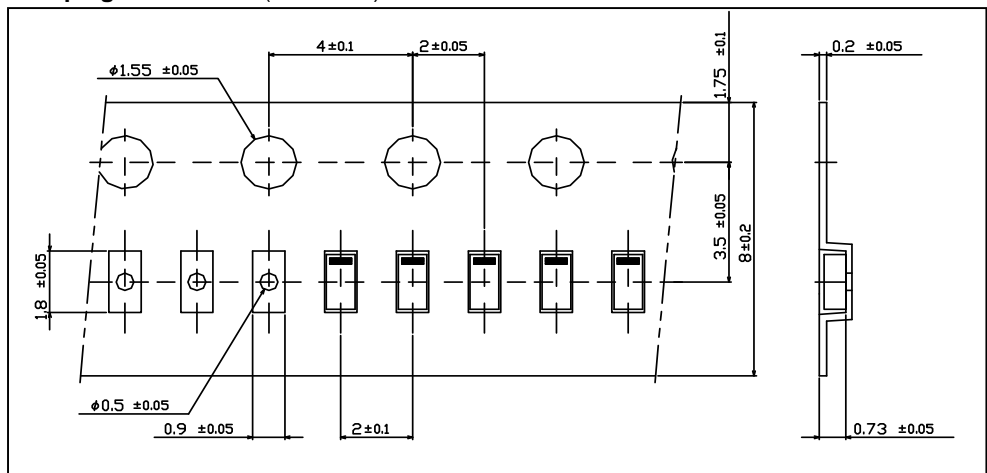
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**



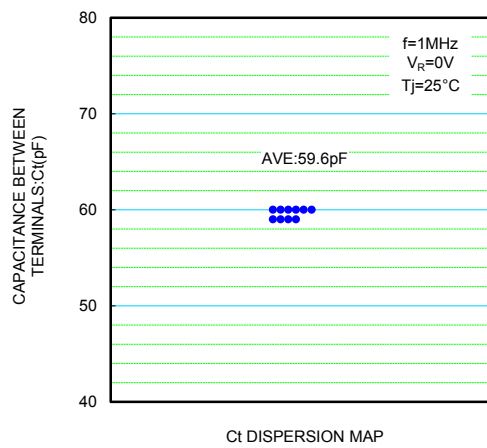
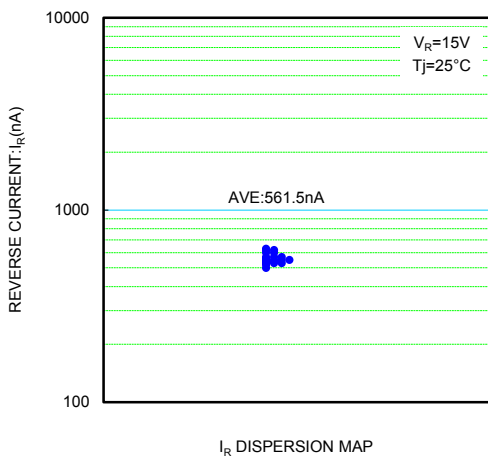
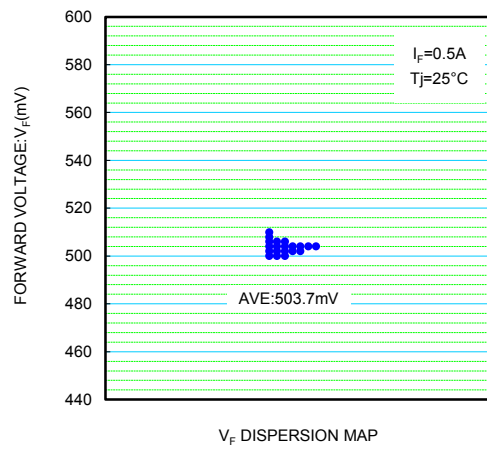
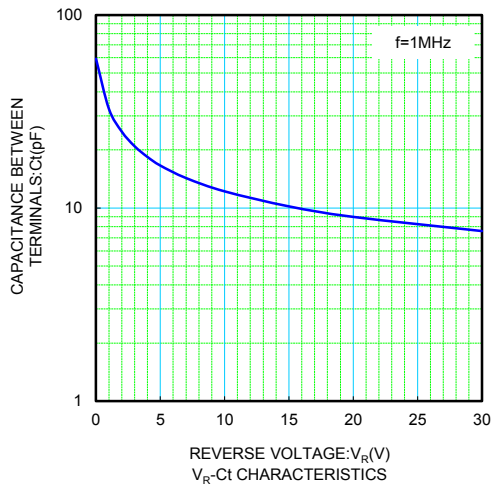
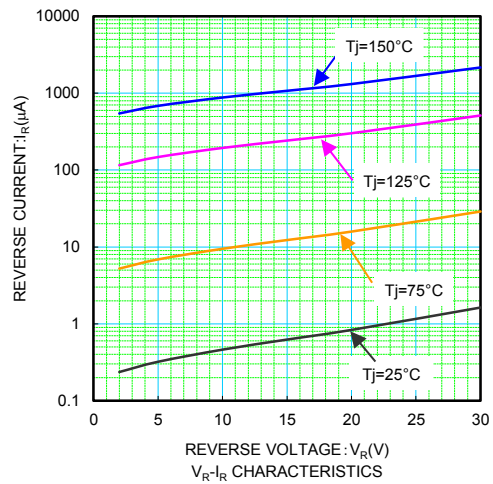
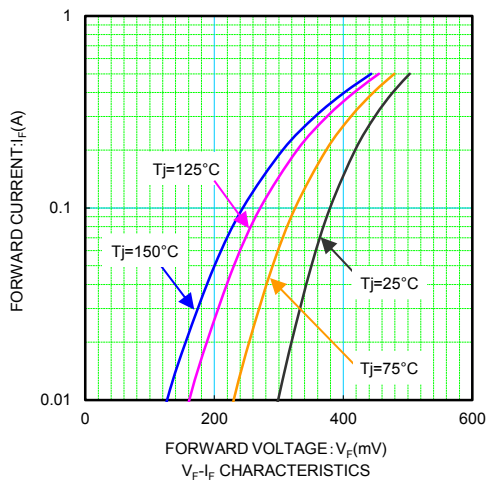
● **Absolute maximum ratings (Ta=25°C)**

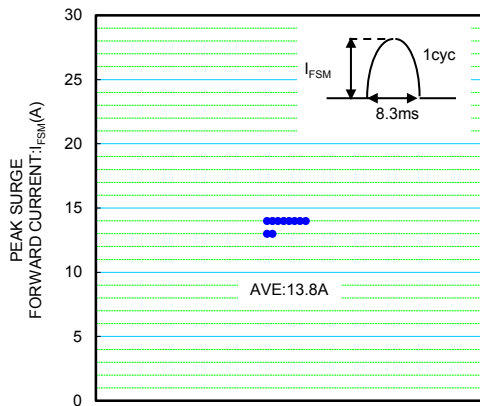
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	0.5	A
Forward current surge peak (60Hz·1cyc.)	I_{FSM}	5	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

(*1) On the Glass epoxy board , 180°Half Sine wave

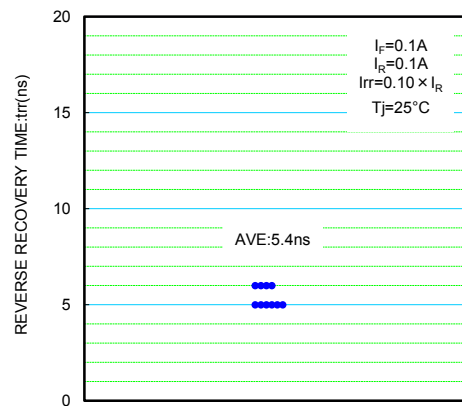
● **Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward Voltage	V_F	-	0.53	0.59	V	$I_F=0.5A$
Reverse Current	I_R	-	1.00	8.00	μA	$V_R=15V$

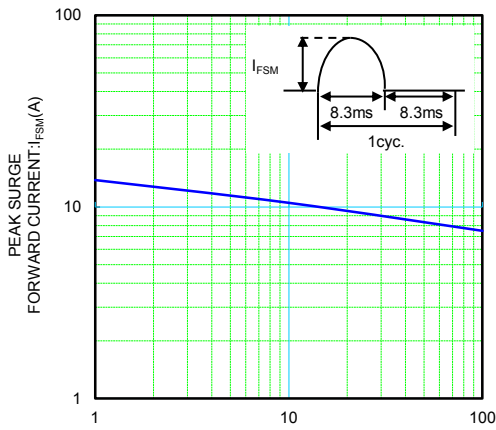




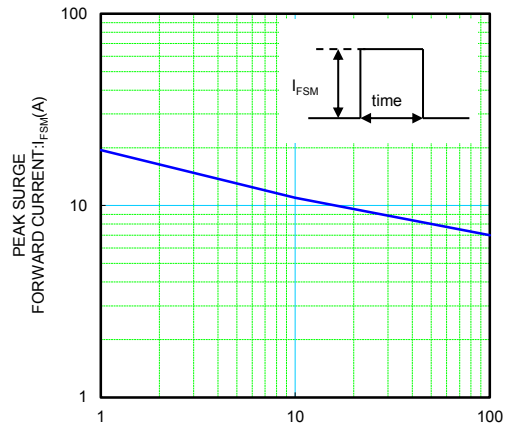
I_{FSM} DISPERSION MAP



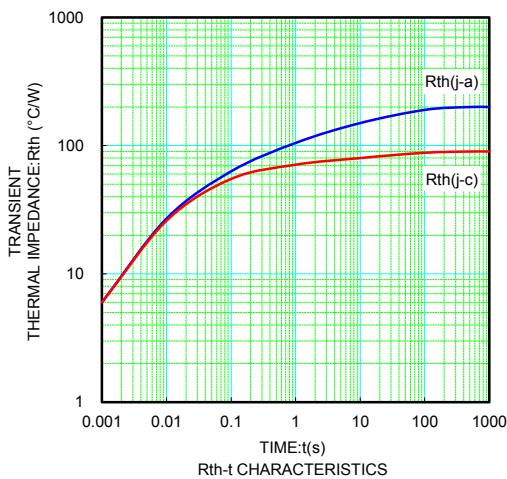
t_{rr} DISPERSION MAP



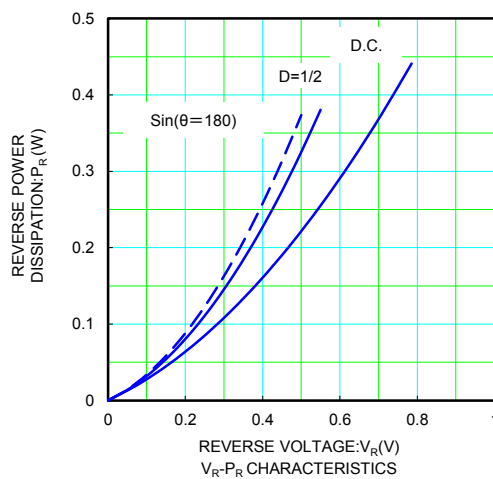
I_{FSM} -CYCLE CHARACTERISTICS



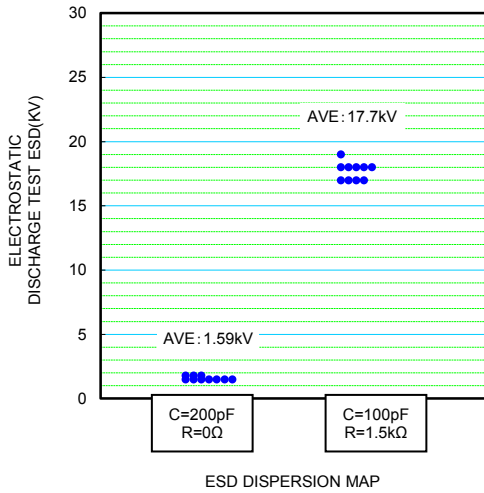
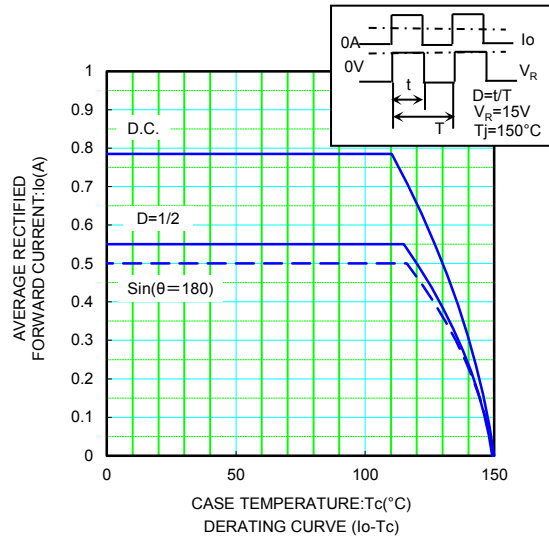
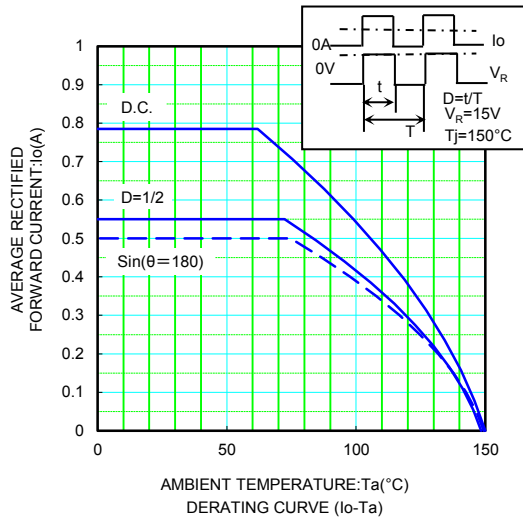
I_{FSM} - t CHARACTERISTICS



R_{th} - t CHARACTERISTICS



V_R - P_R CHARACTERISTICS



Notes

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