

Schottky Barrier Diode

RB551SS-30

●Applications

General Rectification

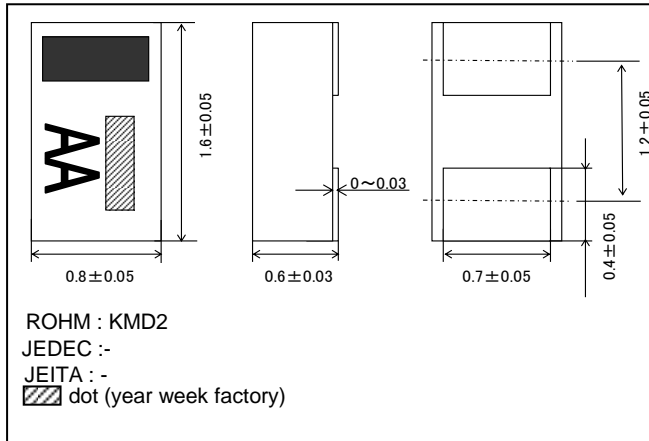
●Features

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

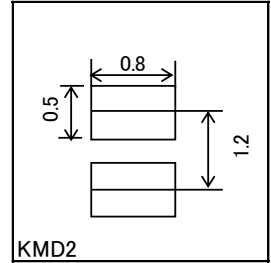
●Construction

Silicon epitaxial planer

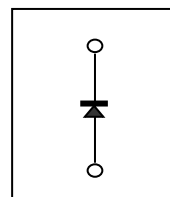
●Dimensions (Unit : mm)



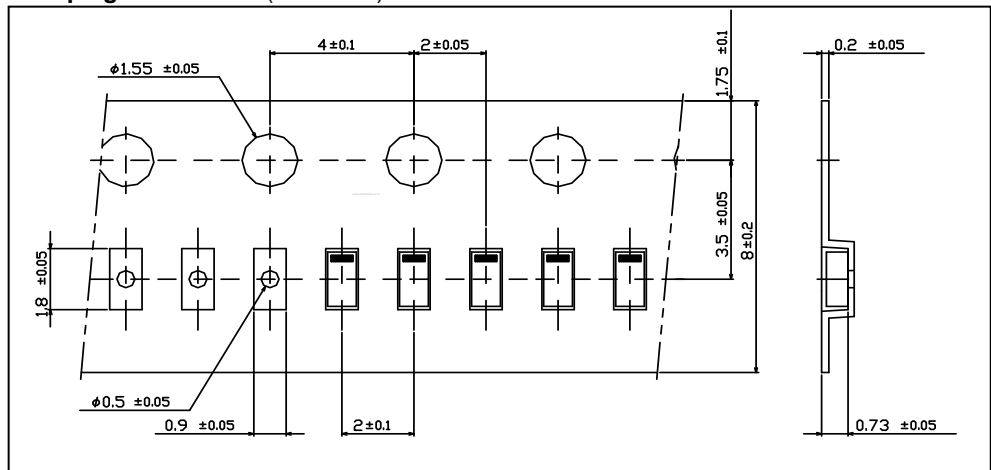
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

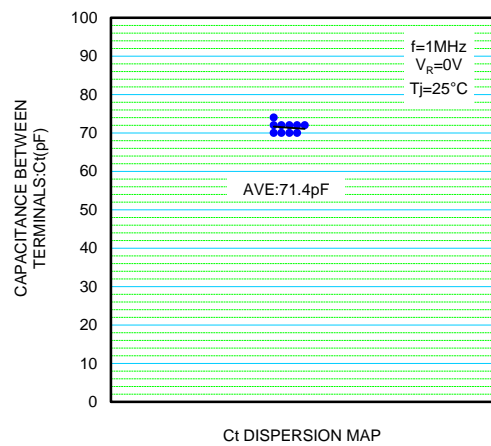
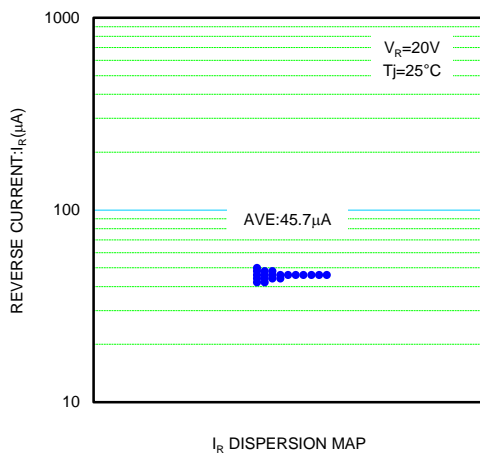
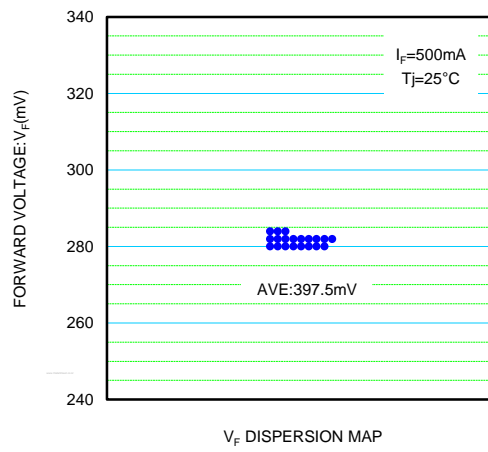
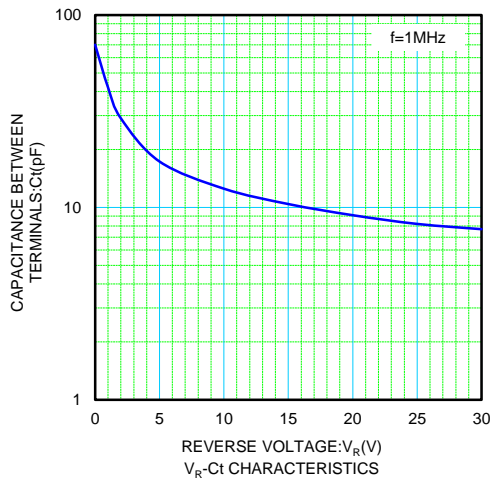
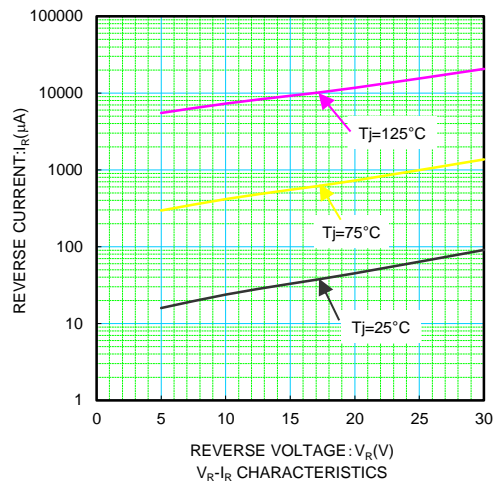
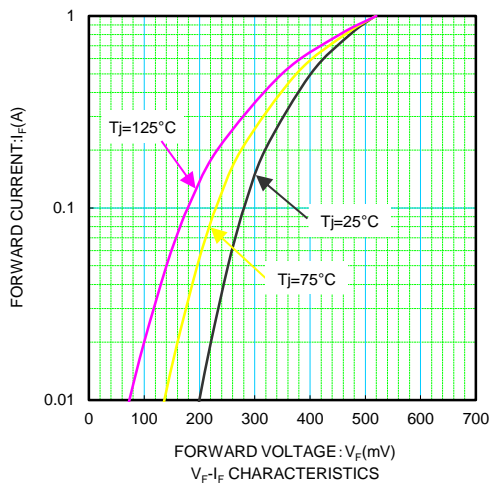


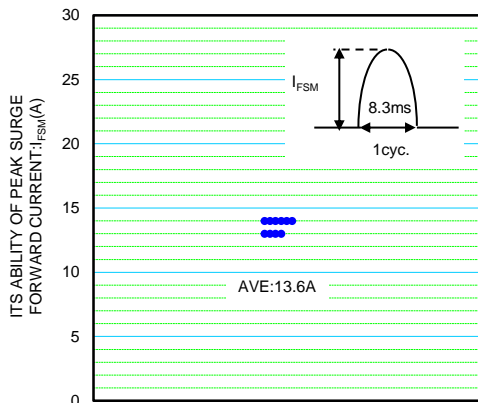
●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	I_o	0.5	A
Forward current surge peak(60Hz·1cyc.)	I_{FSM}	5	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

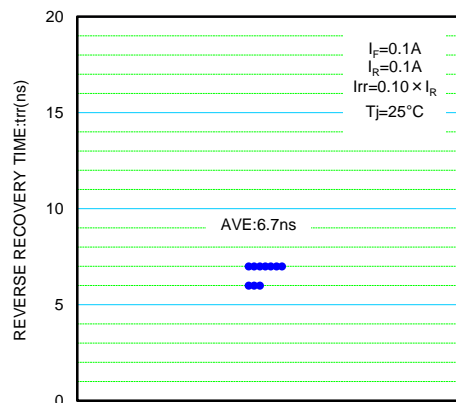
●Electrical characteristics ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.36	V	$I_F=100\text{mA}$
	V_{F2}	-	-	0.47	V	$I_F=500\text{mA}$
Reverse current	I_R	-	-	100	μA	$V_R=20\text{V}$

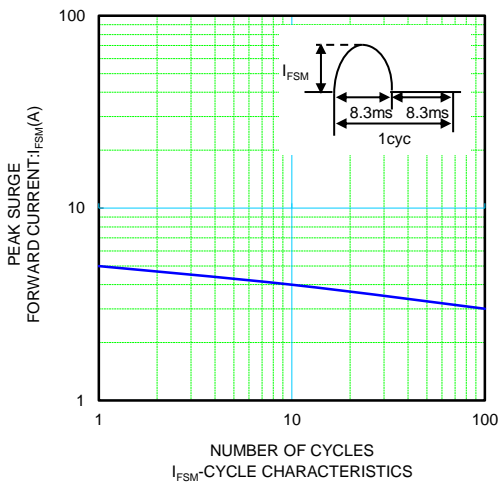




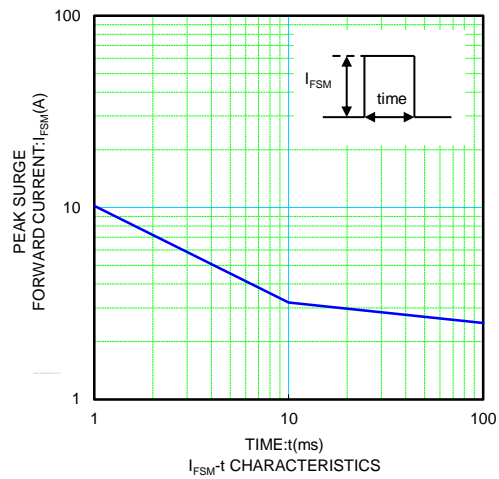
I_{FSM} DISPERSION MAP



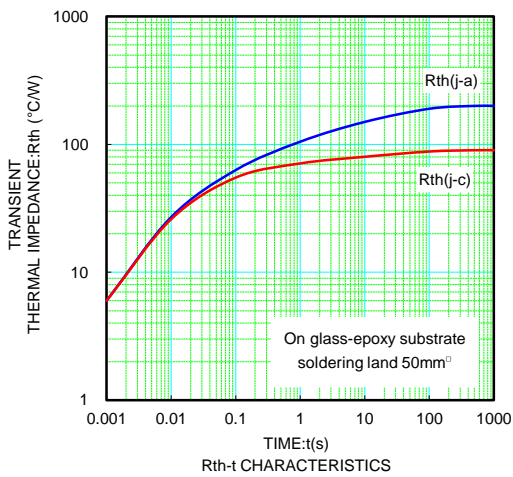
trr DISPERSION MAP



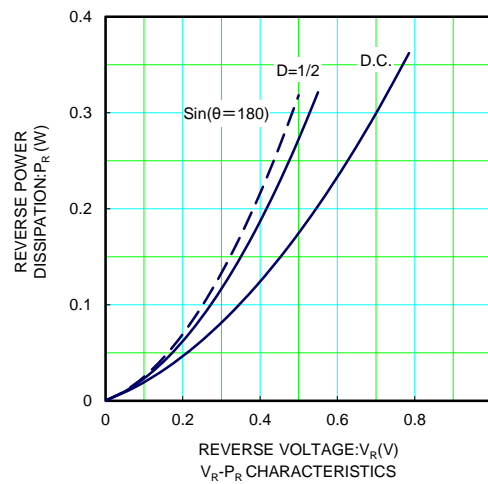
I_{FSM} -CYCLE CHARACTERISTICS



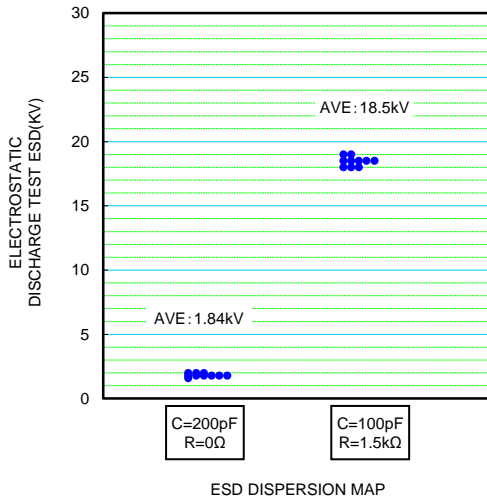
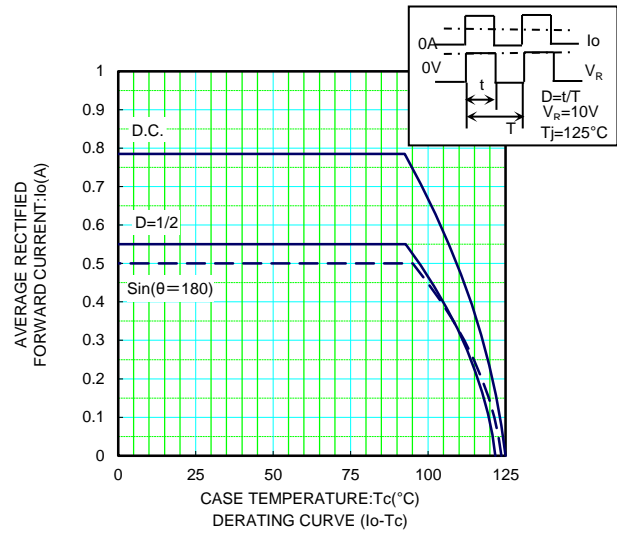
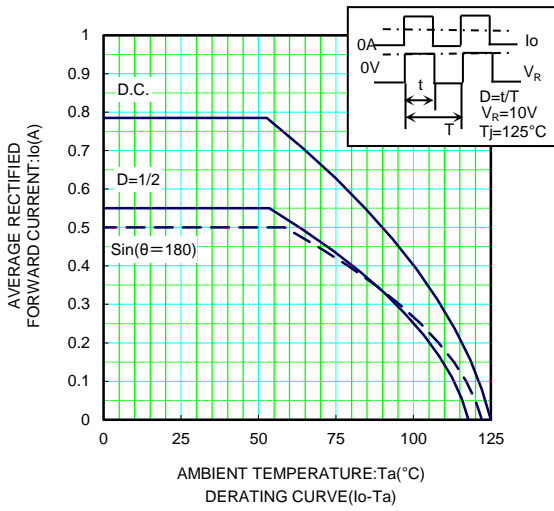
I_{FSM} -t CHARACTERISTICS



Rth-t CHARACTERISTICS



V_R - P_R CHARACTERISTICS



Notes

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