

# Schottky Barrier Diode

RB551SS-30

●Applications

General Rectification

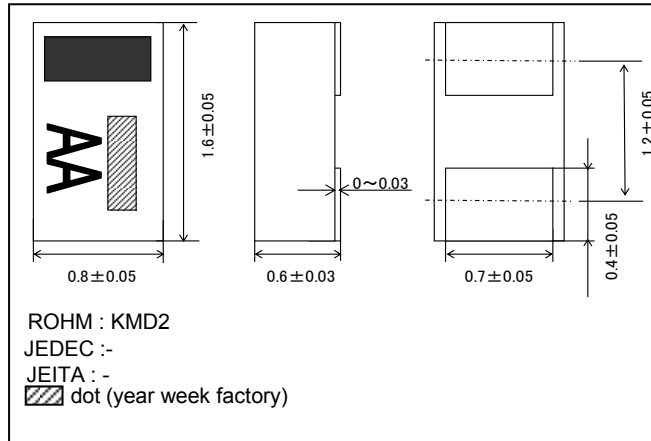
●Features

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

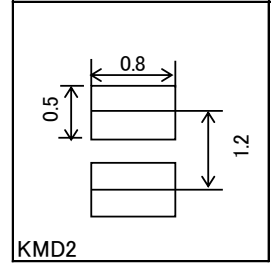
●Construction

Silicon epitaxial planer

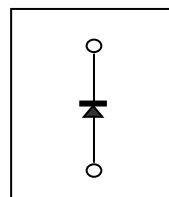
●Dimensions (Unit : mm)



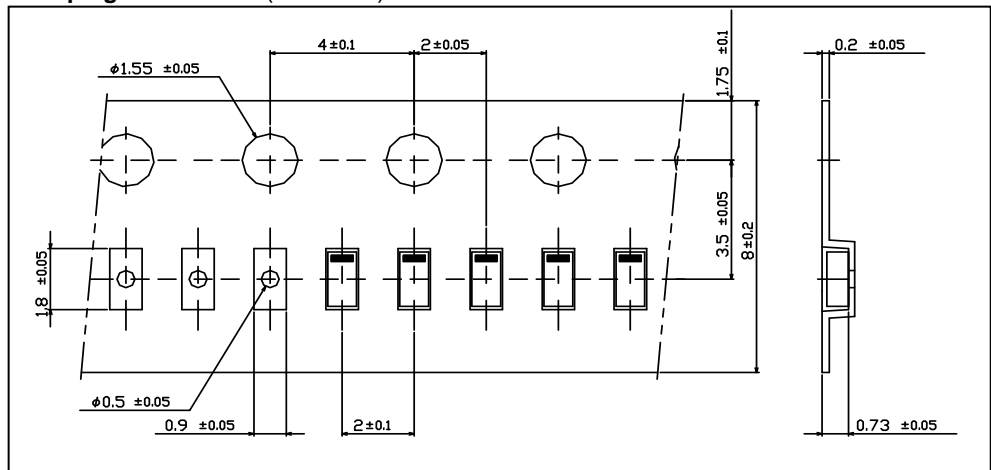
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

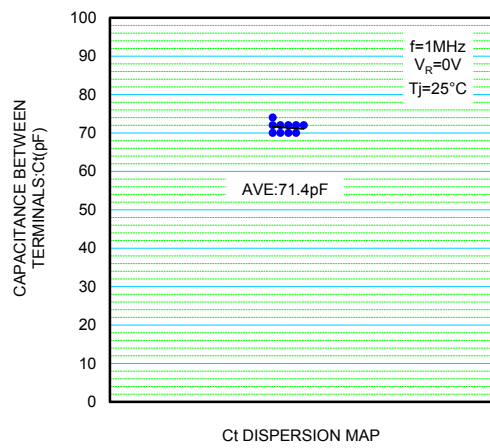
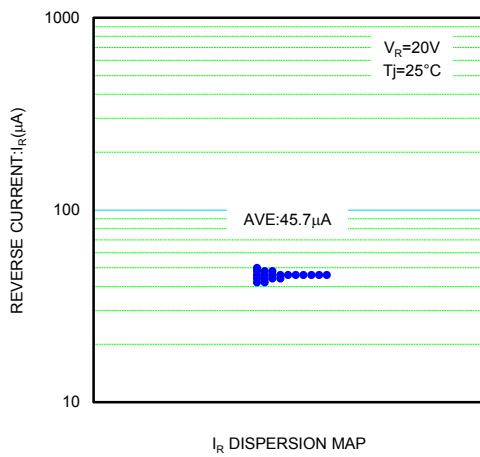
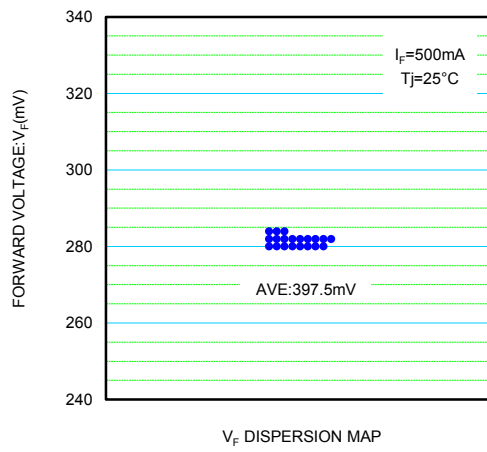
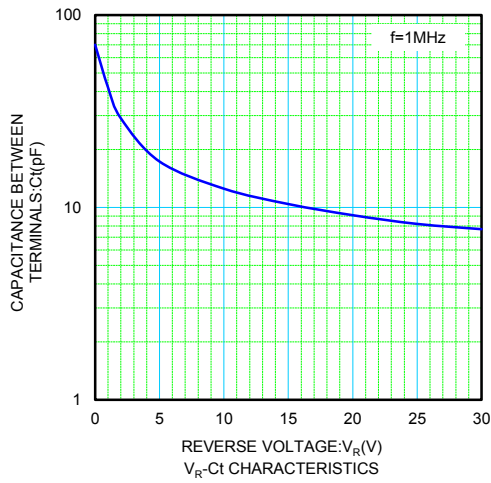
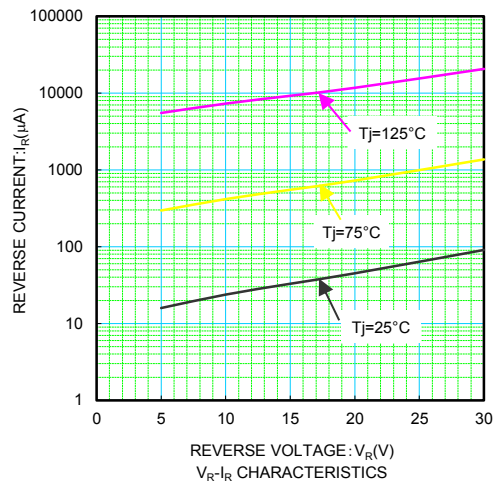
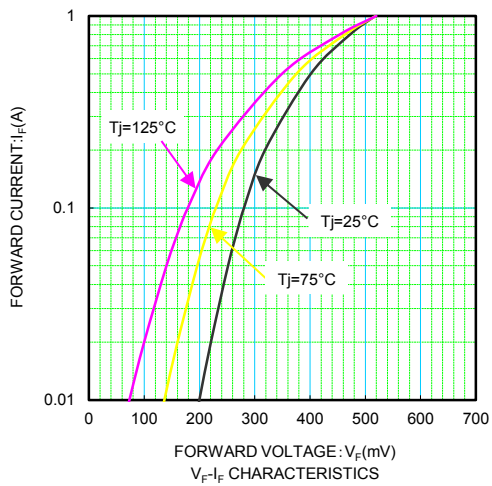


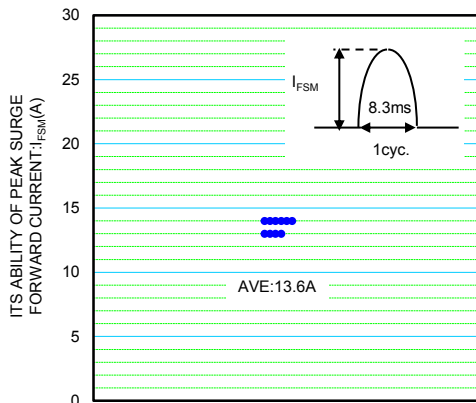
●Absolute maximum ratings (Ta=25°C)

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	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

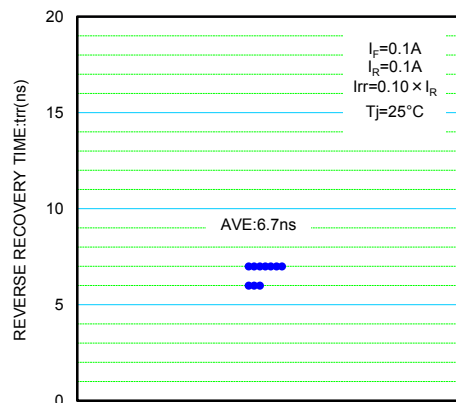
●Electrical characteristics (Ta=25°C)

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

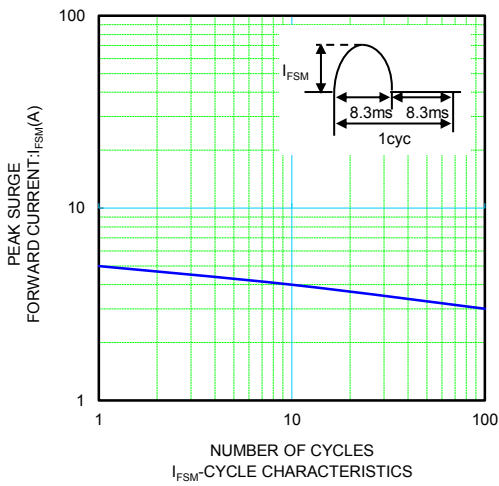




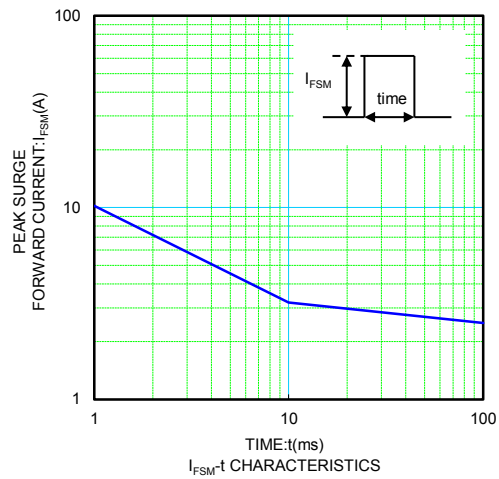
I<sub>FSM</sub> DISPERSION MAP



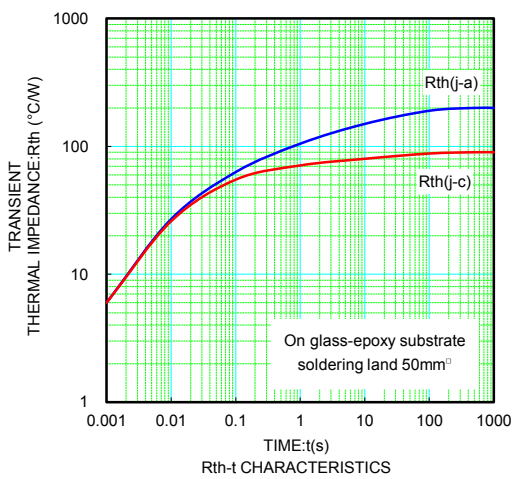
trr DISPERSION MAP



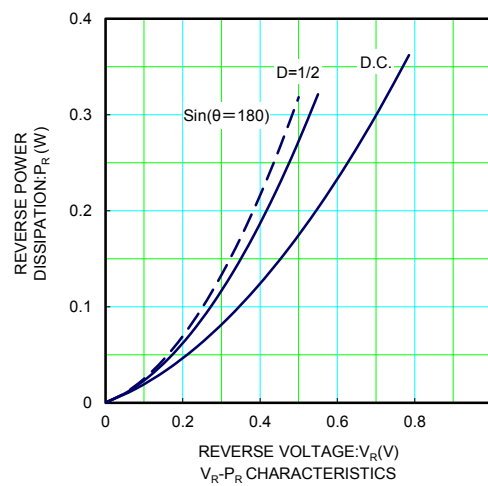
I<sub>FSM</sub>-CYCLE CHARACTERISTICS



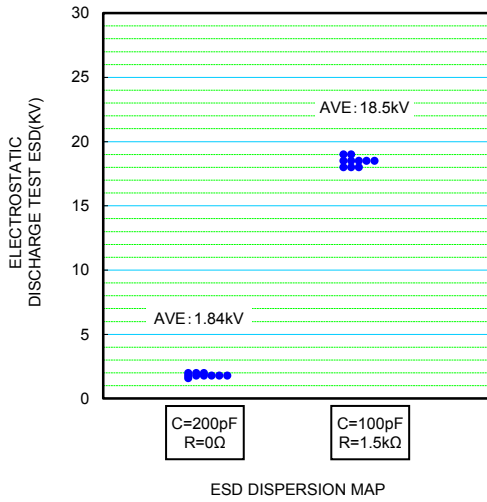
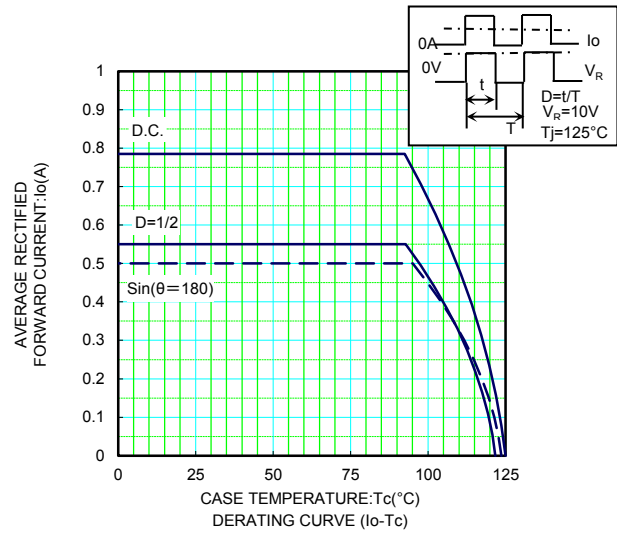
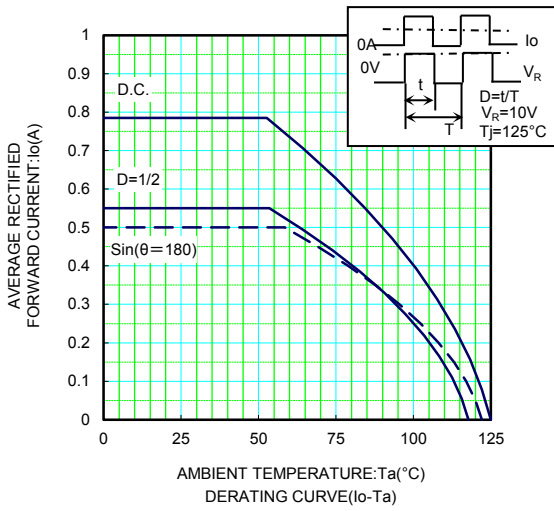
I<sub>FSM</sub>-t CHARACTERISTICS



Rth-t CHARACTERISTICS



V<sub>R</sub>-P<sub>R</sub> CHARACTERISTICS



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