

Schottky Barrier Diode

RB531S-30

●Applications

General rectification

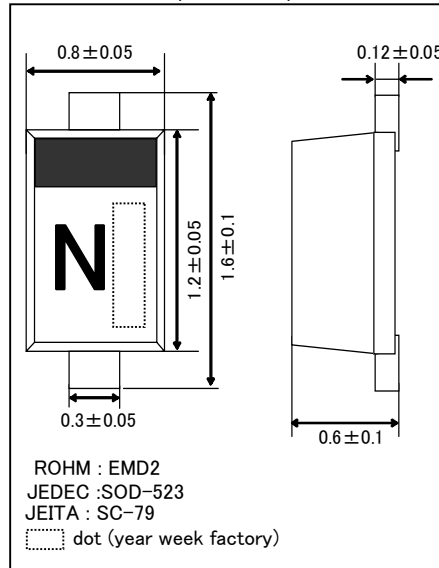
●Features

- 1) Ultra small mold type.(EMD2)
- 2) Low V_F
- 3) High reliability

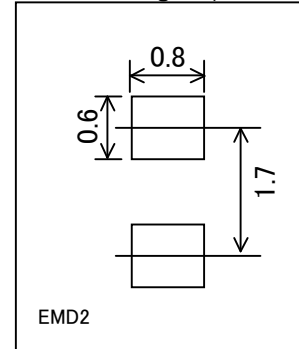
●Construction

Silicon epitaxial planer

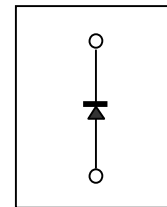
●Dimensions(Unit : mm)



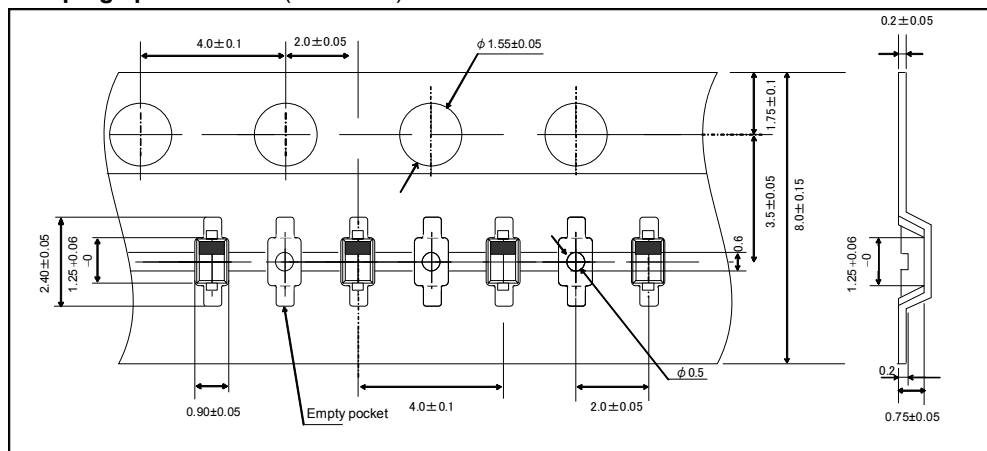
●Land size figure(Unit : mm)



●Structure



●Taping specifications(Unit : mm)



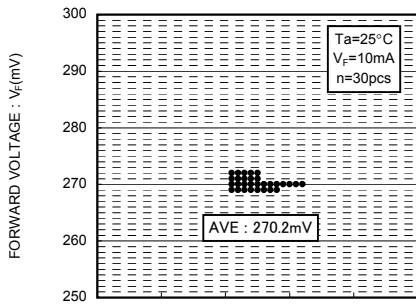
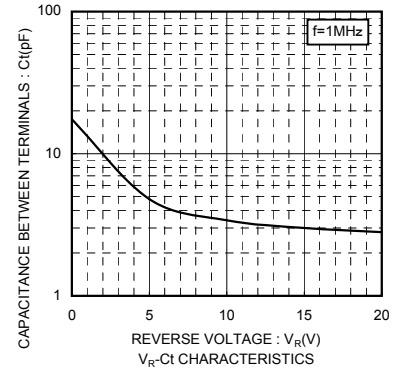
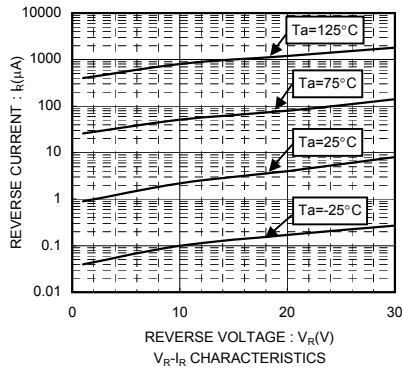
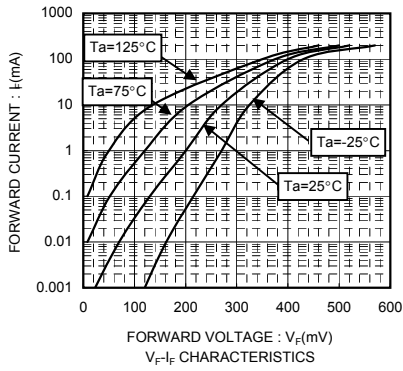
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage(DC)	V_R	30	V
Average rectified forward current	I_O	100	mA
Forward current surge peak(60Hz/1cyc)	I_{FSM}	500	mA
Junction temperature	T_J	125	°C
Storage temperature	T_{stg}	-40to+125	°C

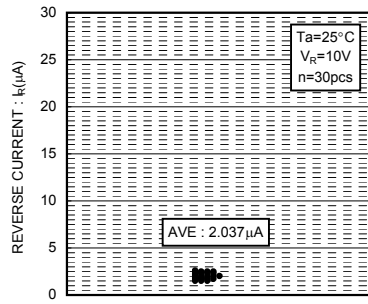
●Electical voltage(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.35	V	$I_F=10mA$
Reverse current	I_R	-	-	10	μA	$V_R=10V$

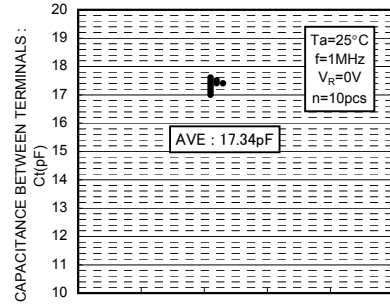
●Electrical characteristics curves



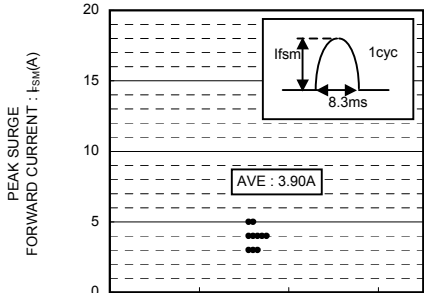
V_F DISPERSION MAP



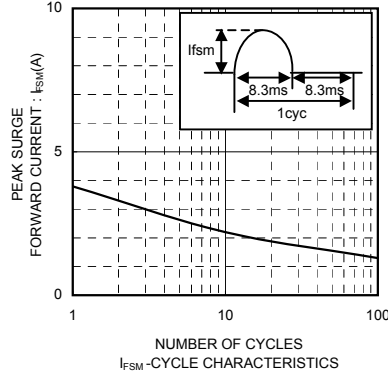
I_R DISPERSION MAP



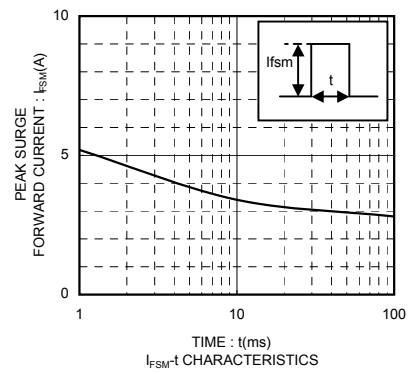
C_t DISPERSION MAP



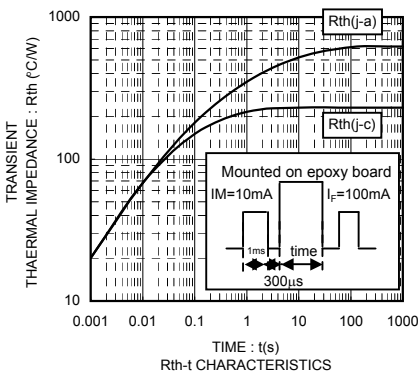
I_{FSM} DISPERSION MAP



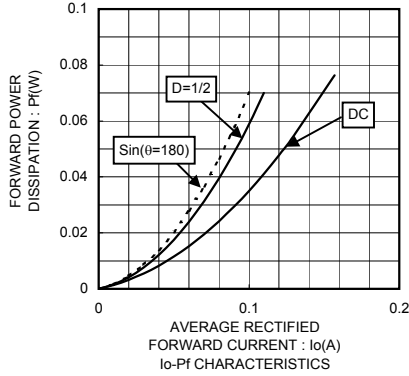
I_{FSM}-CYCLE CHARACTERISTICS



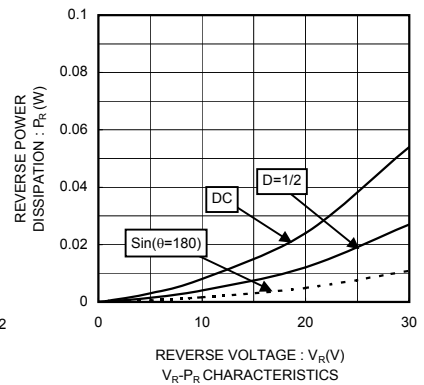
I_{FSM}-t CHARACTERISTICS



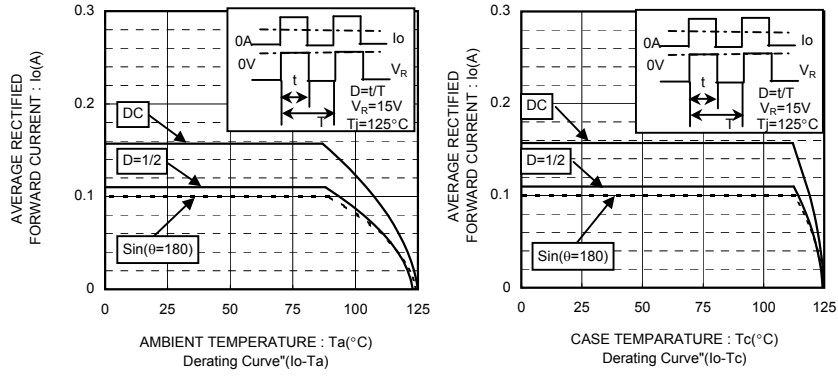
R_{th}-t CHARACTERISTICS



I_o-P_F CHARACTERISTICS



V_R-P_R CHARACTERISTICS



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