

# Schottky Barrier Diode

## RB531S-30

**●Applications**

General rectification

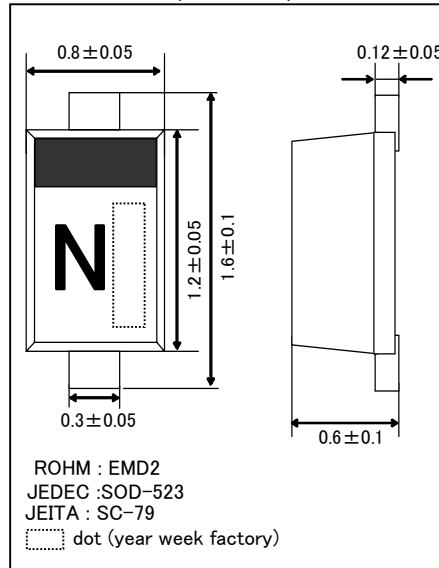
**●Features**

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

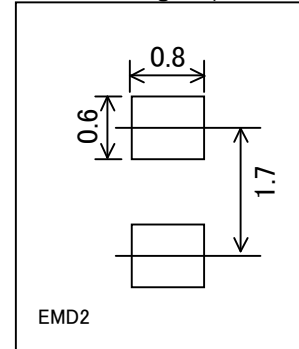
**●Construction**

Silicon epitaxial planer

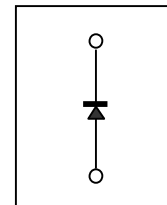
**●Dimensions(Unit : mm)**



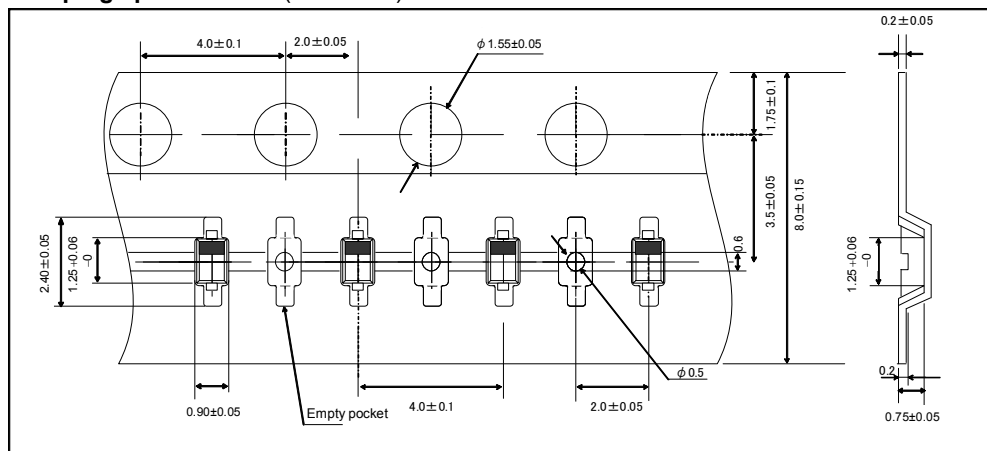
**●Land size figure(Unit : mm)**



**●Structure**



**●Taping specifications(Unit : mm)**



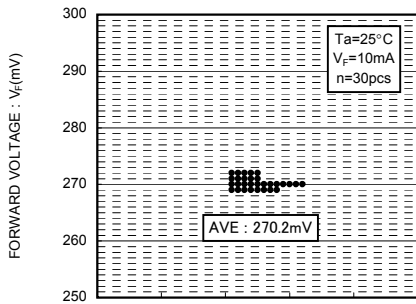
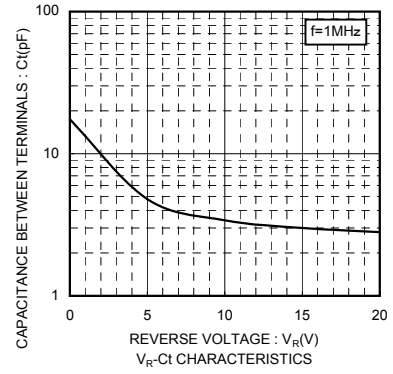
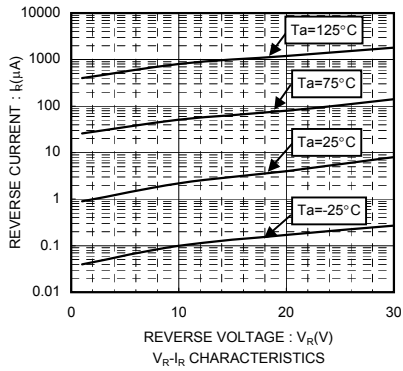
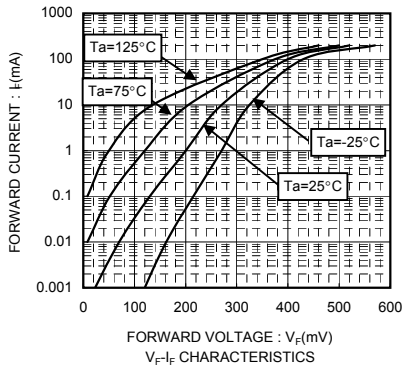
**●Absolute maximum ratings (Ta=25°C)**

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

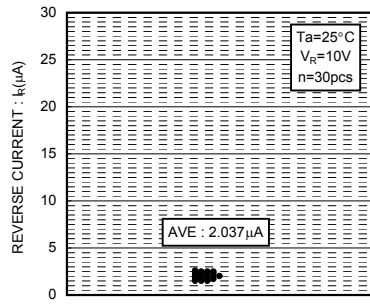
**●Electical voltage(Ta=25°C)**

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

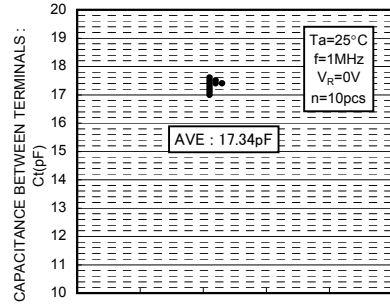
●Electrical characteristics curves



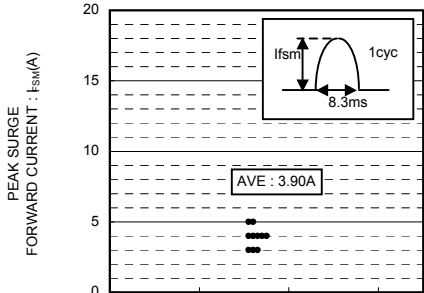
V<sub>F</sub> DISPERSION MAP



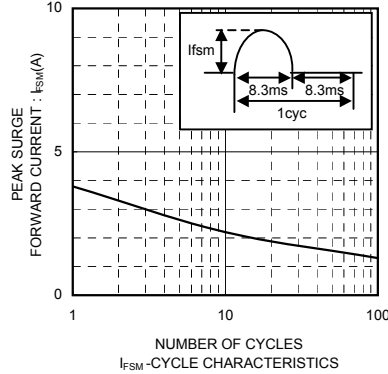
I<sub>R</sub> DISPERSION MAP



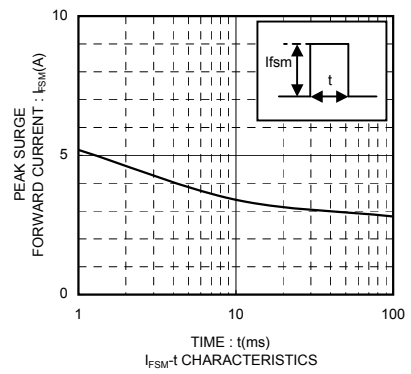
C<sub>t</sub> DISPERSION MAP



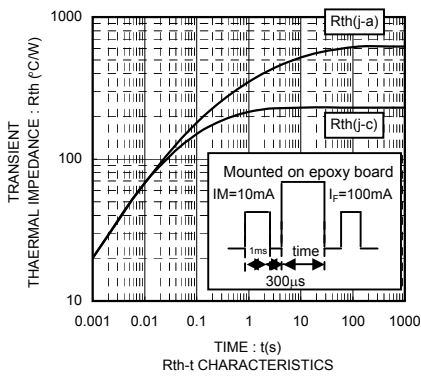
I<sub>FSM</sub> DISPERSION MAP



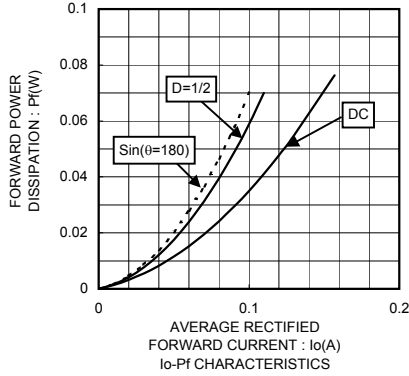
I<sub>FSM</sub>-CYCLE CHARACTERISTICS



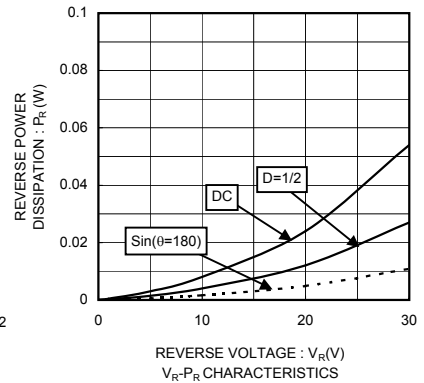
I<sub>FSM</sub>-t CHARACTERISTICS



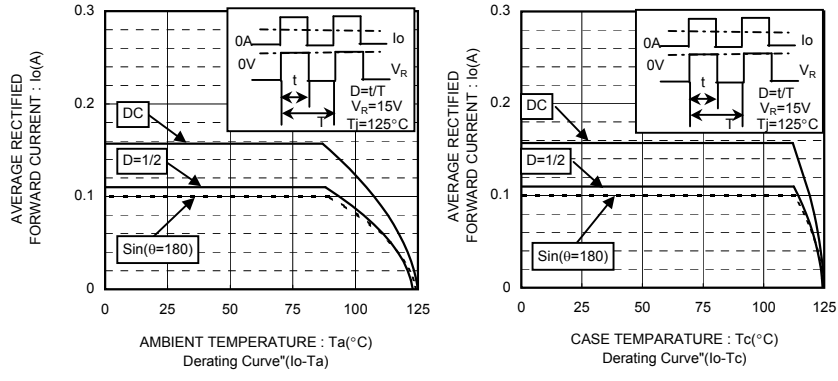
R<sub>th</sub>-t CHARACTERISTICS



I<sub>o</sub>-P<sub>F</sub> CHARACTERISTICS



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



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