

Schottky barrier diode

RB481Y

●Applications

Low current rectification

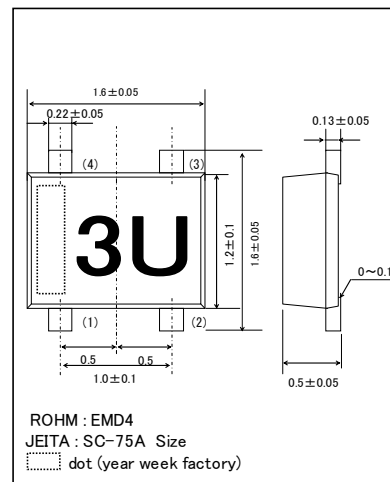
●Features

- 1) Ultra Small power mold type. (EMD4)
- 2) Low V_F
- 3) High reliability.

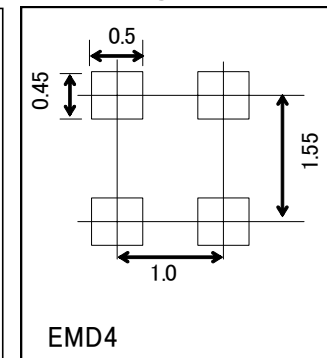
●Construction

Silicon epitaxial planar

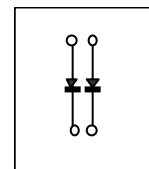
●Dimensions (Unit : mm)



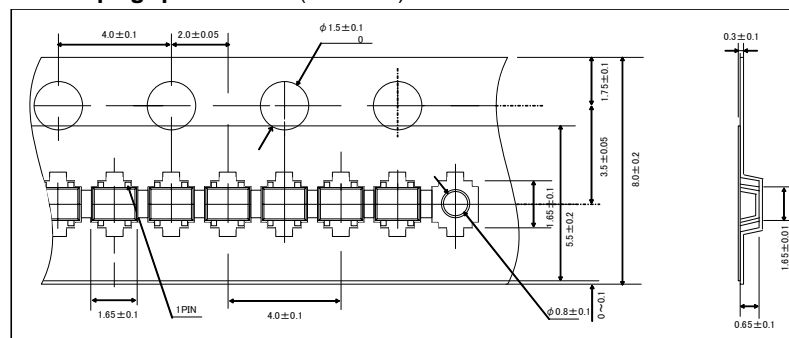
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

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

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	30	V
Average rectified forward current (*1)	I_o	100	mA
Forward current surge peak (60Hz·1cyc) (*1)	I_{FSM}	1	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

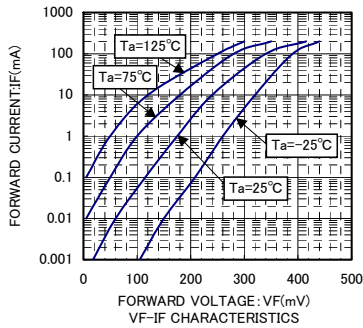
(*1) Rating of per diode

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

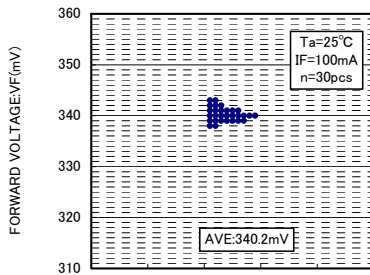
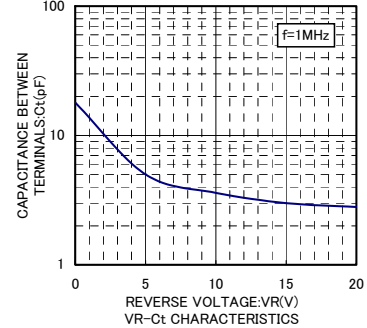
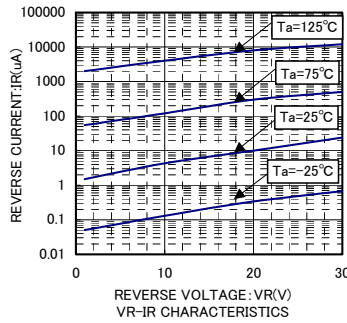
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.28	V	$I_F=1\text{mA}$
	V_{F2}	-	-	0.33	V	$I_F=10\text{mA}$
	V_{F3}	-	-	0.43	V	$I_F=100\text{mA}$
Reverse current	I_R	-	-	30	μA	$V_R=10\text{V}$

Diodes

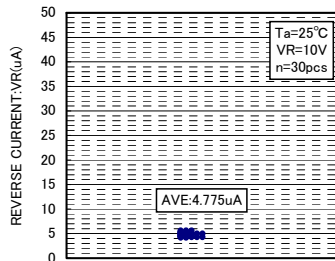
●Electrical characteristic curves (Ta=25°C)



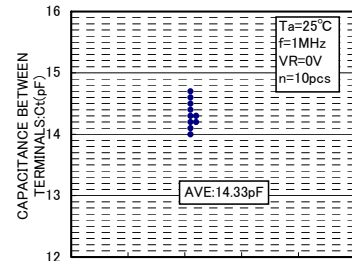
VF分布



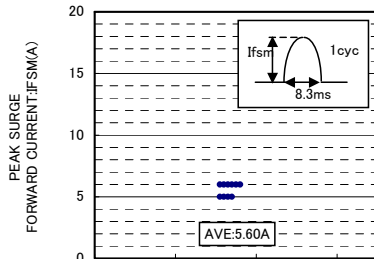
VF DISPERSION MAP



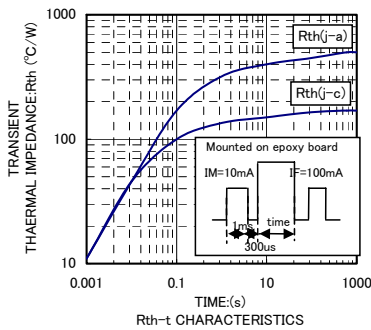
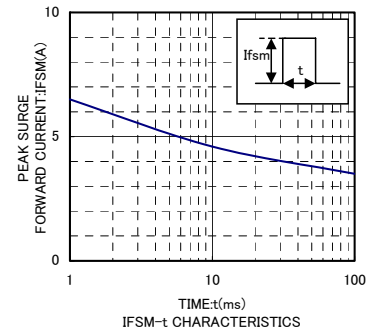
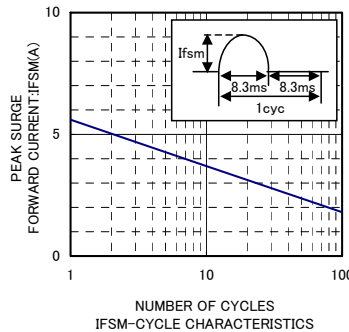
IR DISPERSION MAP



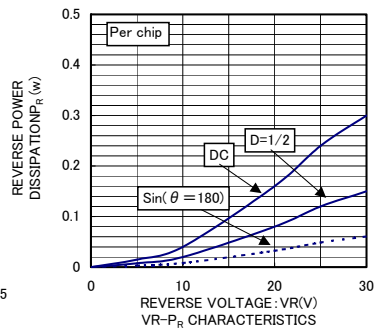
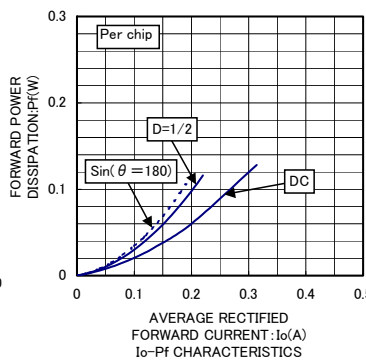
Ct DISPERSION MAP



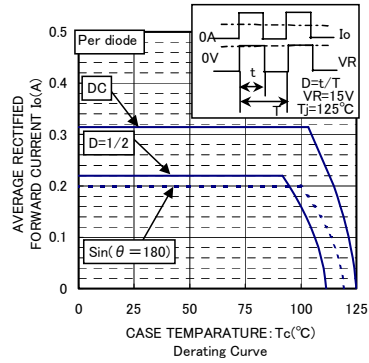
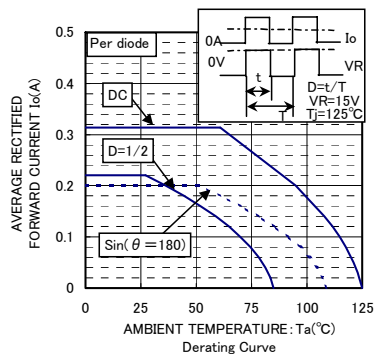
IFSM DISPERSION MAP



Rth-t CHARACTERISTICS



Diodes



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