

Schottky barrier diode

RB481Y

●Applications

Low current rectification

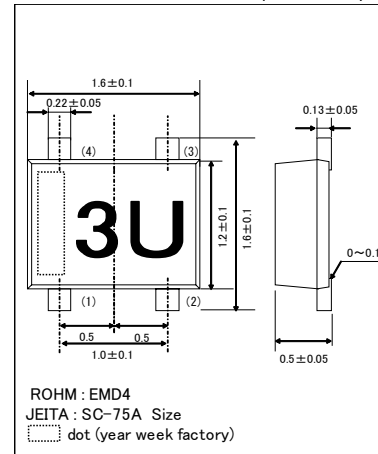
●Features

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

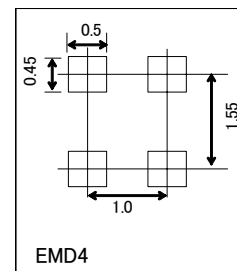
●Construction

Silicon epitaxial planar

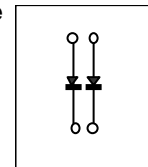
● External dimensions (Unit : mm)



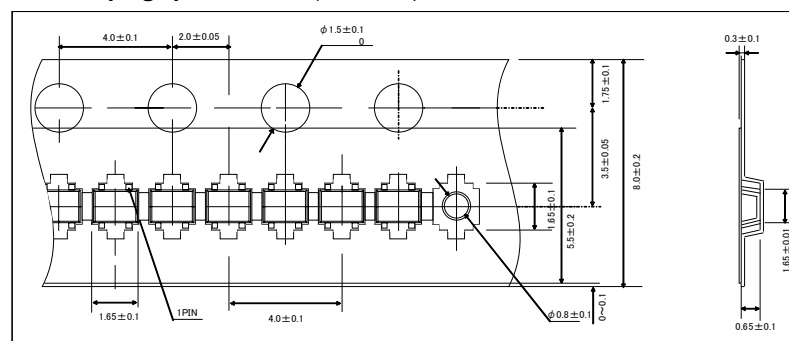
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage	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	°C
Storage temperature	T_{stg}	-40 to +125	°C

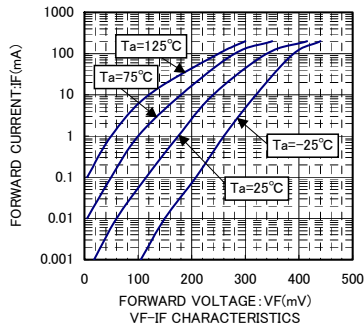
(*1) Rating of per diode

●Electrical characteristics (Ta=25°C)

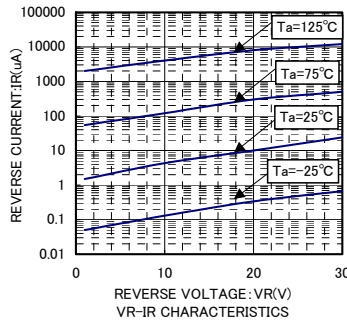
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.28	V	$I_F=1mA$
	V_{F2}	-	-	0.33	V	$I_F=10mA$
	V_{F3}	-	-	0.43	V	$I_F=100mA$
Reverse current	I_R	-	-	30	μA	$V_R=10V$

Diodes

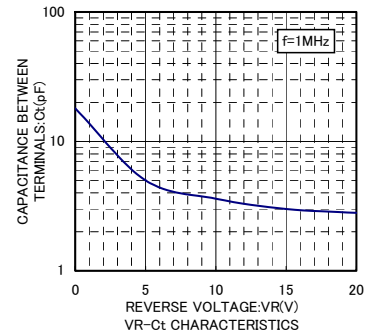
●Electrical characteristic curves (Ta=25°C)



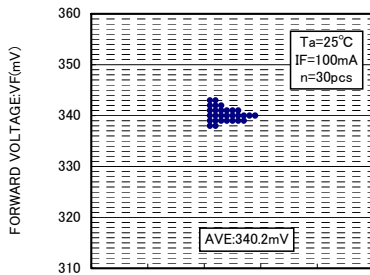
VF分布



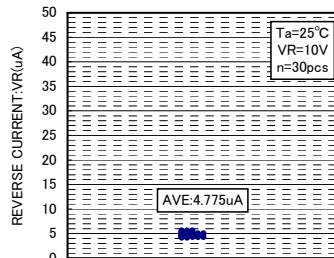
VR-IR CHARACTERISTICS



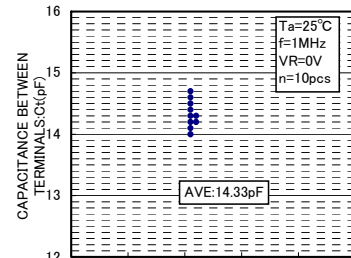
VR-Ct CHARACTERISTICS



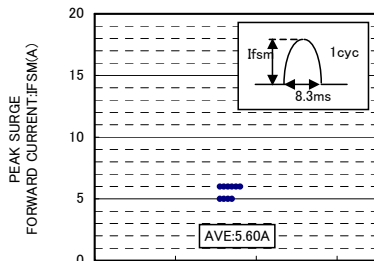
VF DISPERSION MAP



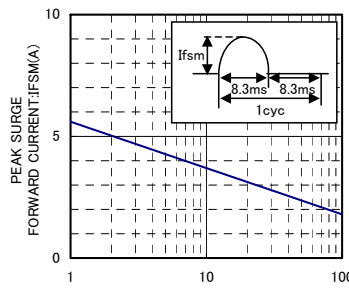
IR DISPERSION MAP



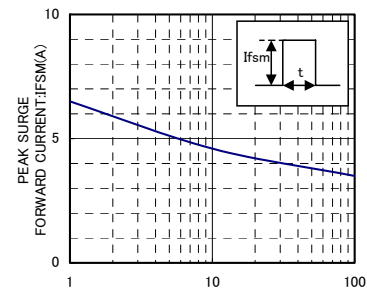
Ct DISPERSION MAP



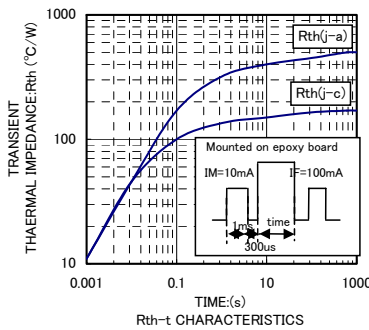
IFSM DISPERSION MAP



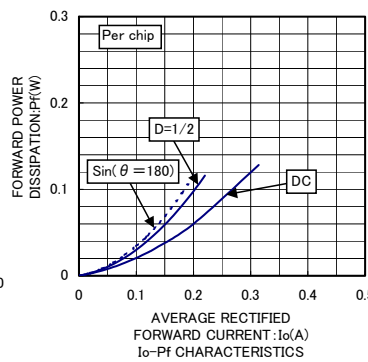
NUMBER OF CYCLES
IFSM-CYCLE CHARACTERISTICS



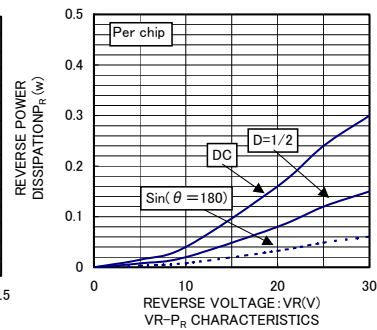
TIME:t(ms)
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS

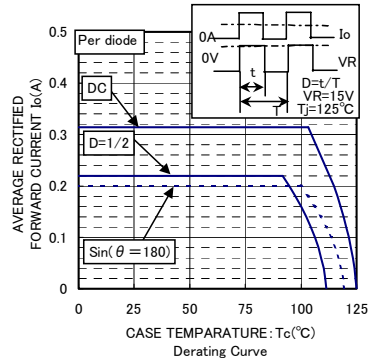
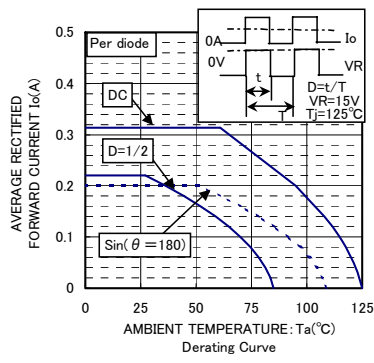


AVERAGE RECTIFIED
FORWARD CURRENT:Io(A)
Io-Pf CHARACTERISTICS



REVERSE VOLTAGE:VR(V)
VR-P_r CHARACTERISTICS

Diodes



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