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ROHM SEMICONDUCTOR

Data Sheet

Schottky Barrier Diode

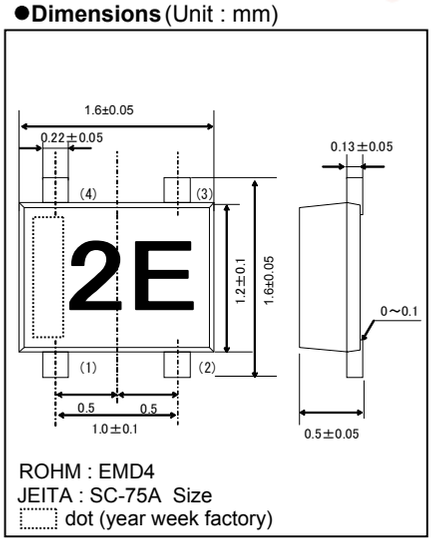
RB481Y-90

●**Applications**
Low current rectification

●**Features**
1) Ultra small mold type. (EMD4)
2) Low V_F
3) High reliability

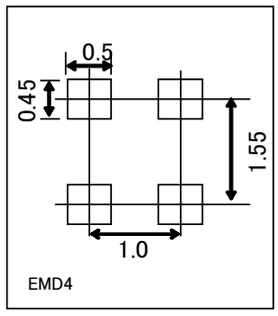
●**Construction**
Silicon epitaxial planar

●**Dimensions** (Unit : mm)

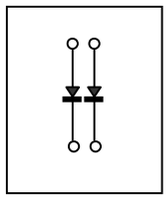


ROHM : EMD4
JEITA : SC-75A Size
dot (year week factory)

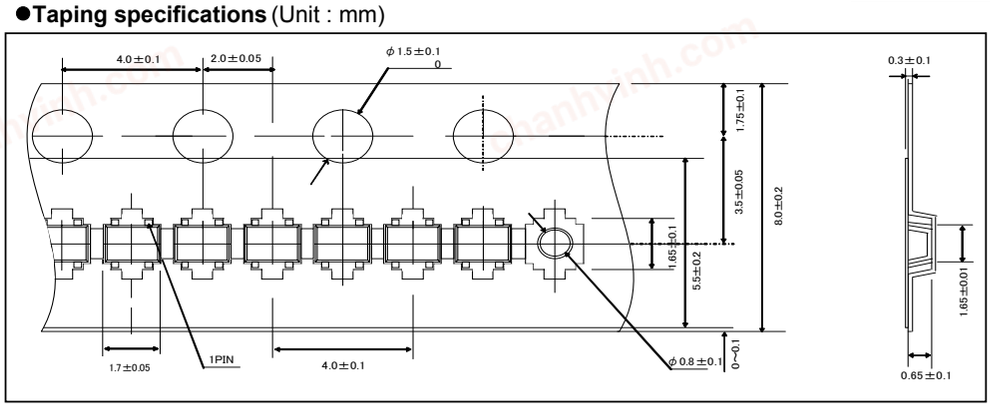
●**Land size figure** (Unit : mm)



●**Structure**



●**Taping specifications** (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	90	V
Reverse voltage (DC)	V_R	90	V
Average rectified forward current (*1)	Io	100	mA
Forward current surge peak (60Hz・1cyc) (*1)	I_{FSM}	1	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40 to +125	°C

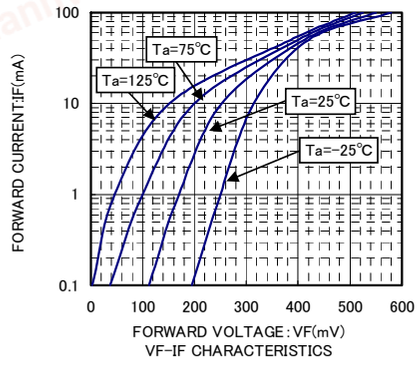
(*1) Rating of per diode

●**Electrical characteristics** (Ta=25°C)

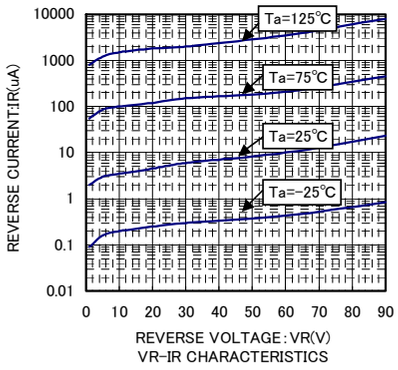
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.55	0.61	V	I_F=100mA
Reverse current	I_R	-	20	100	μA	V_R=90V

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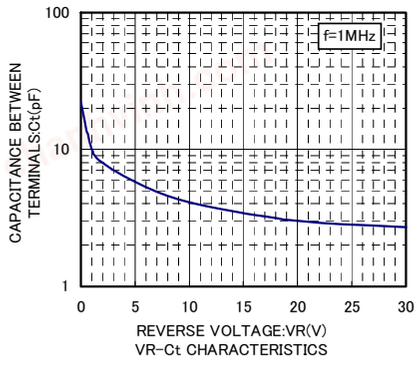
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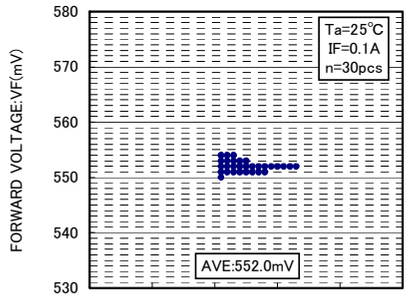
VF-IF CHARACTERISTICS



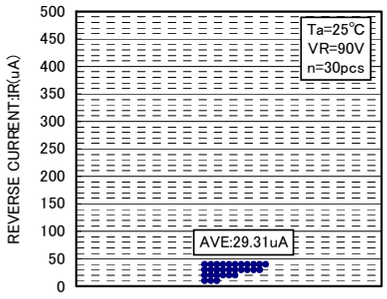
VR-IR CHARACTERISTICS



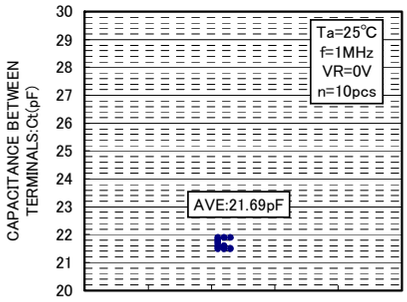
VR-Ct CHARACTERISTICS



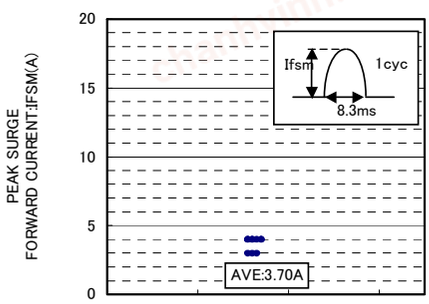
VF DISPERSION MAP



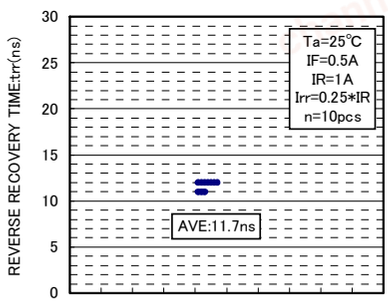
IR DISPERSION MAP



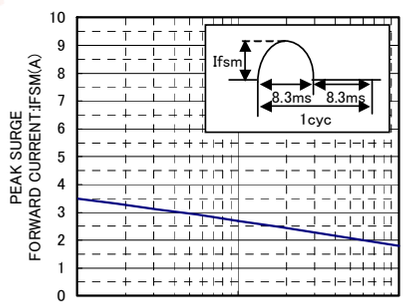
Ct DISPERSION MAP



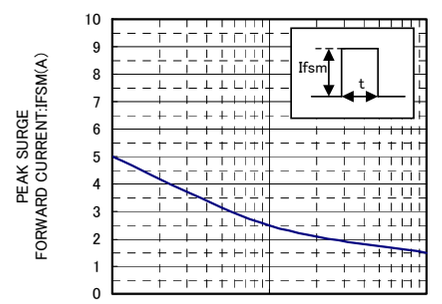
IFSM DISRESION MAP



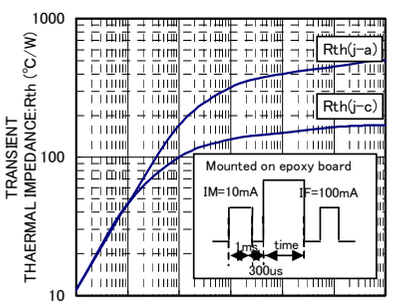
trr DISPERSION MAP



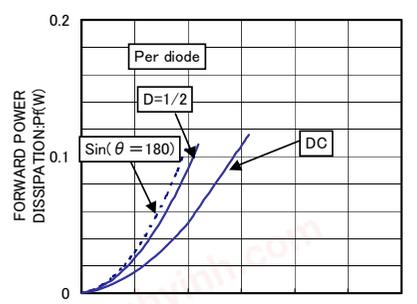
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



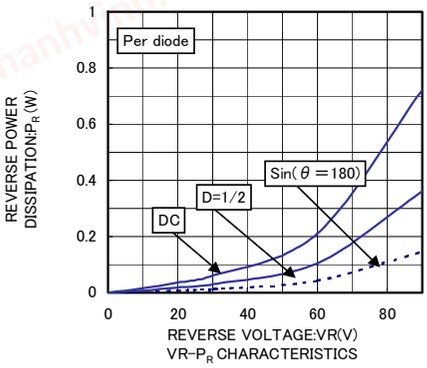
Rth-t CHARACTERISTICS

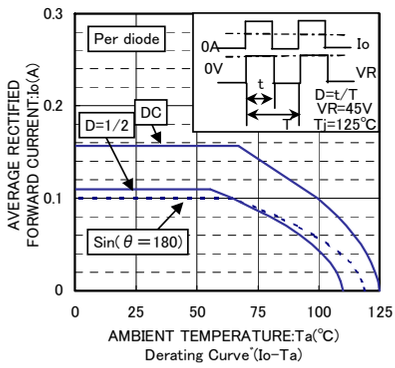


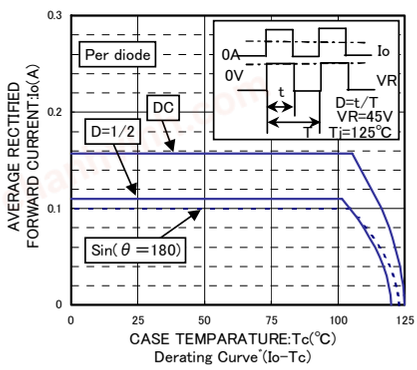
Io-Pf CHARACTERISTICS

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