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ROHM SEMICONDUCTOR

Data Sheet

Schottky Barrier Diode

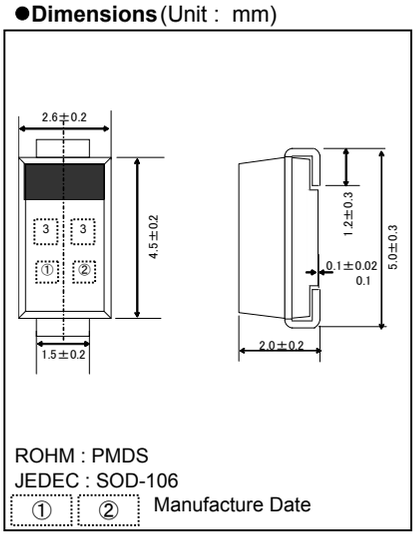
RB161L-40

●**Applications**
General rectification

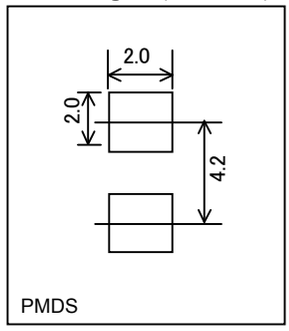
●**Features**
1)Small power mold type.（PMDS）
2)Low V_F
3)High reliability

●**Construction**
Silicon epitaxial planar

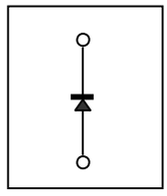
●**Dimensions**(Unit : mm)



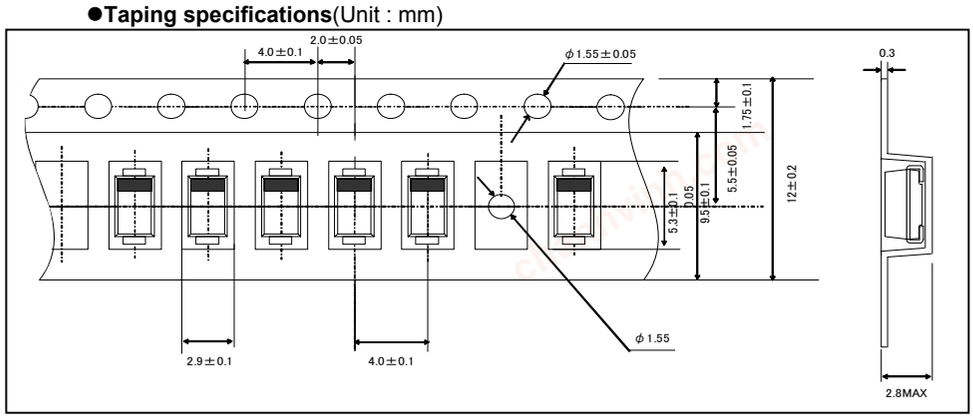
●**Land size figure**(Unit : mm)



●**Structure**



●**Taping specifications**(Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	40	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	Io	1	A
Forward current surge peak (60Hz・1cyc)	I_{FSM}	70	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40 to +125	°C

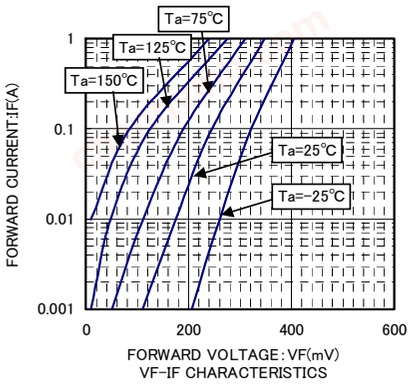
(*1)Mounted on epoxy board. 180°Half sine wave

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

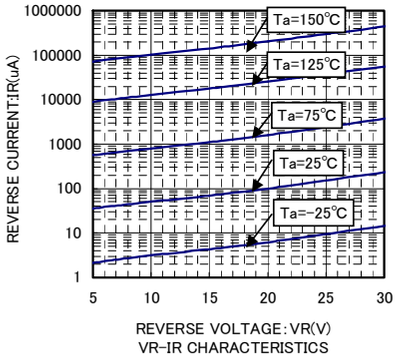
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.40	V	I_F=1.0A
Reverse current	I_R	-	-	1	mA	V_R=20V

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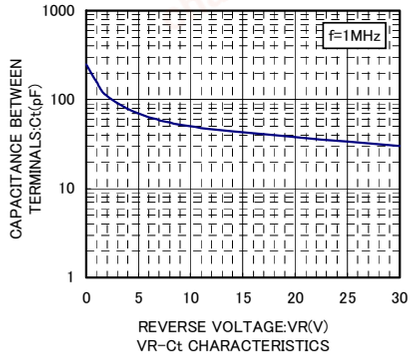
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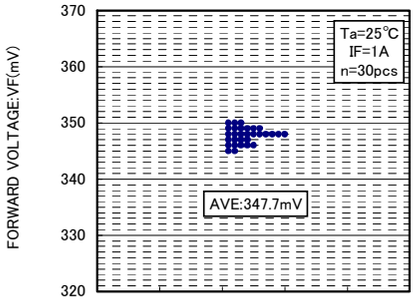
VF-IF CHARACTERISTICS



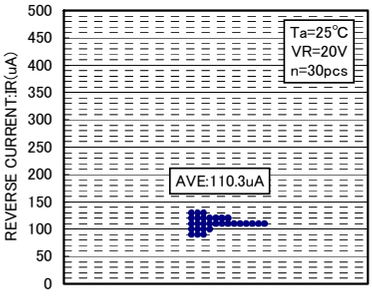
VR-IR CHARACTERISTICS



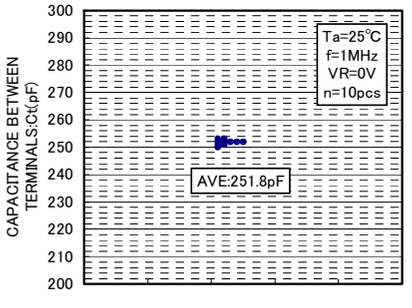
VR-Ct CHARACTERISTICS



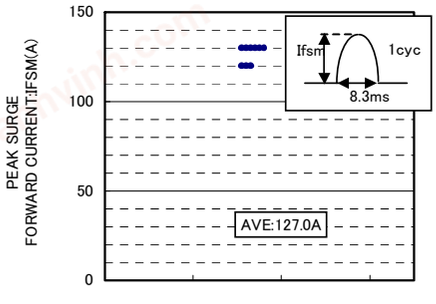
VF DISPERSION MAP



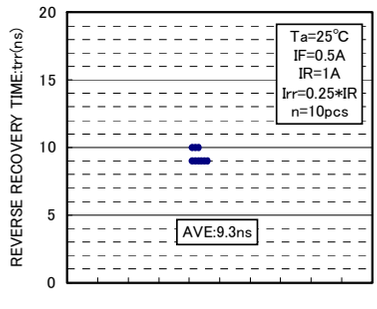
IR DISPERSION MAP



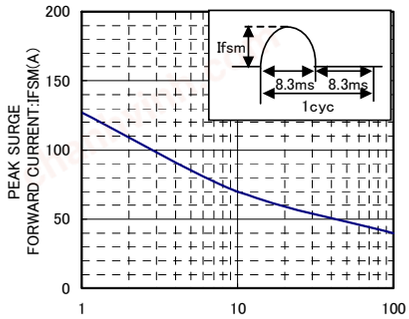
Ct DISPERSION MAP



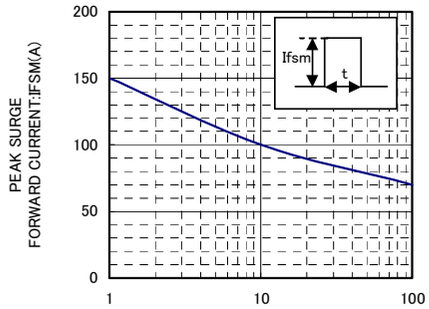
IFSM DISPERSION MAP



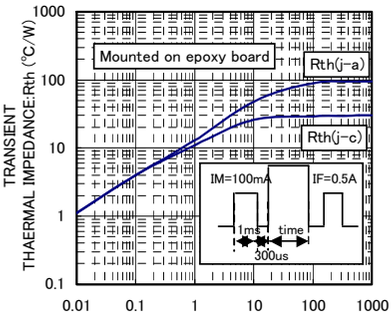
trr DISPERSION MAP



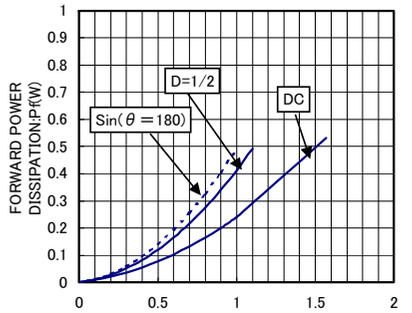
NUMBER OF CYCLES
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



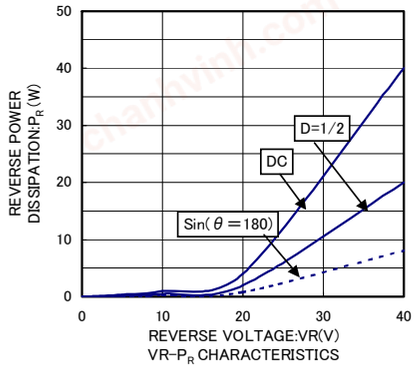
Rth-t CHARACTERISTICS



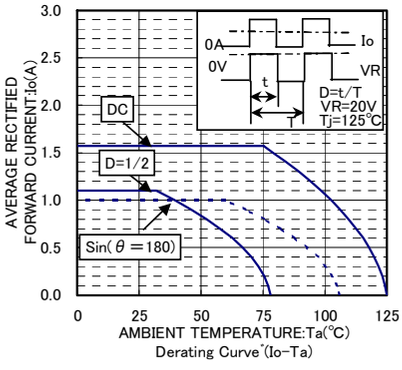
AVERAGE RECTIFIED FORWARD CURRENT:Io(A)
Io-Pf CHARACTERISTICS

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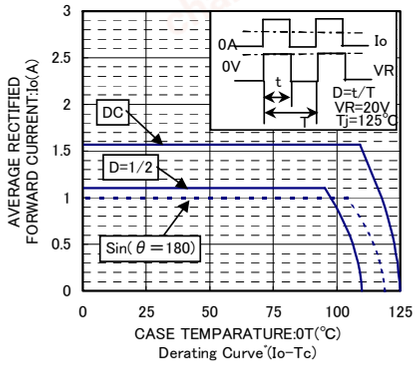
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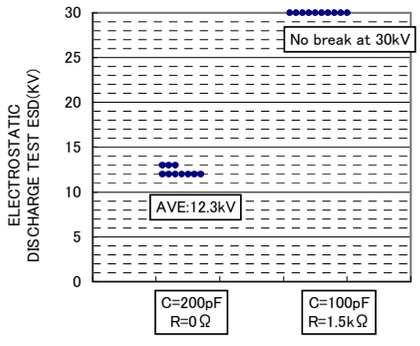
VR-P_R CHARACTERISTICS



Derating Curve (Io-Ta)



Derating Curve (Io-Tc)



ESD DISPERSION MAP

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