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ROHM SEMICONDUCTOR

Data Sheet

Schottky Barrier Diode

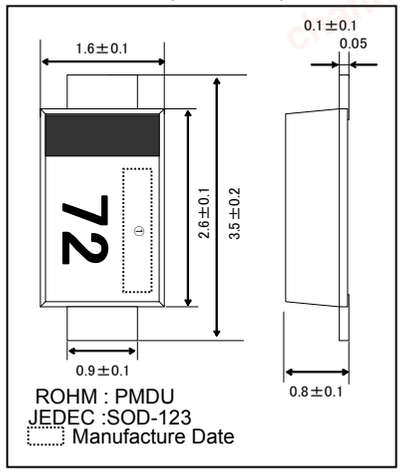
RB161M-20

●**Applications**
General rectification

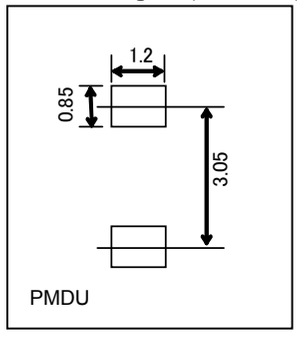
●**Features**
1)Small power mold type.（PMDU）
2)Low V_F
3)High reliability

●**Construction**
Silicon epitaxial planar

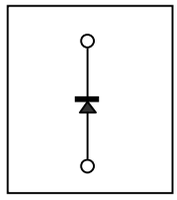
●**Dimensions** (Unit : mm)



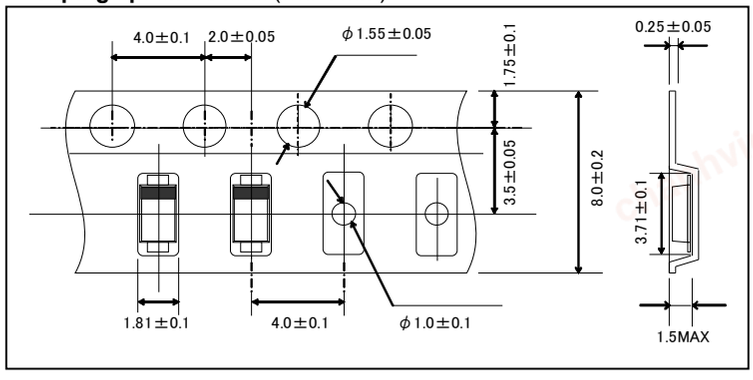
●**Land size figure** (Unit : mm)



●**Structure**



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



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	25	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	Io	1	A
Forward current surge peak (60Hz・1cyc)	I_{FSM}	30	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40 to +125	°C

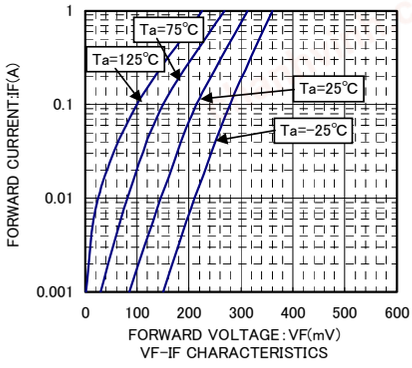
(*1)Mounted on epoxy board. 180°Half sine wave

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

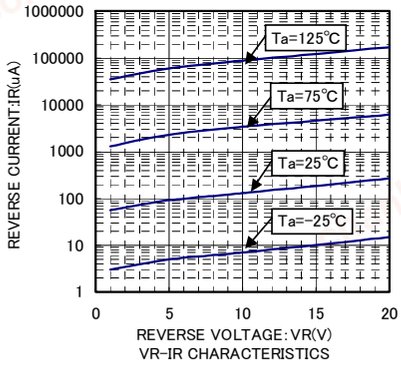
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F1	-	0.28	0.32	V	I_F=0.5A
	V_F2	-	0.31	0.35	V	I_F=1.0A
Reverse current	I_R	-	280	700	μA	V_R=20V

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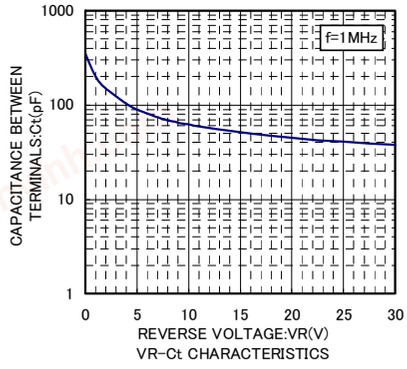
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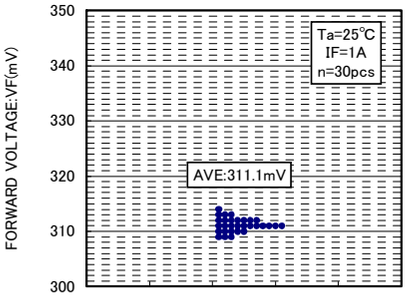
VF-IF CHARACTERISTICS



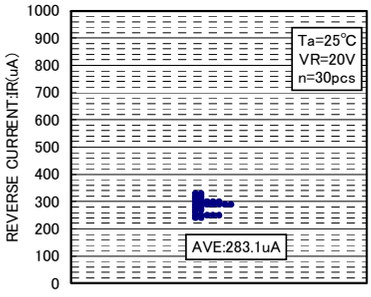
VR-IR CHARACTERISTICS



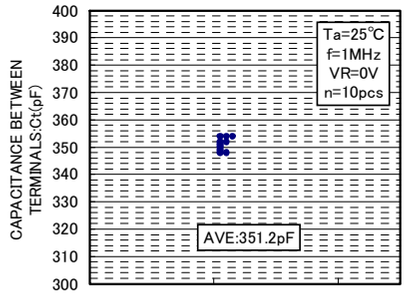
VR-Ct CHARACTERISTICS



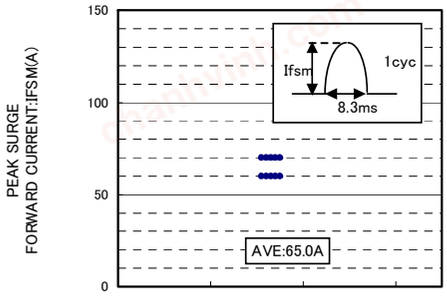
VF DISPERSION MAP



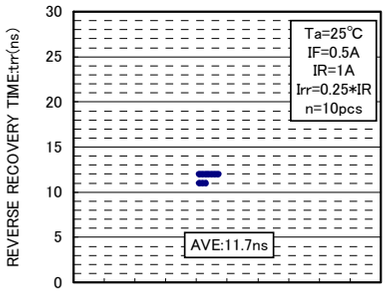
IR DISPERSION MAP



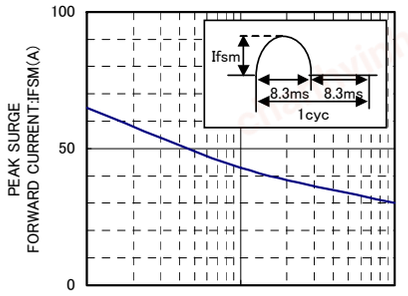
Ct DISPERSION MAP



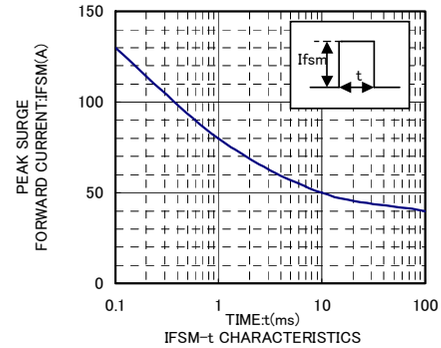
IFSM DISRESION MAP



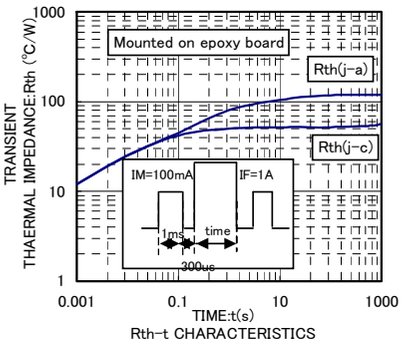
trr DISPERSION MAP



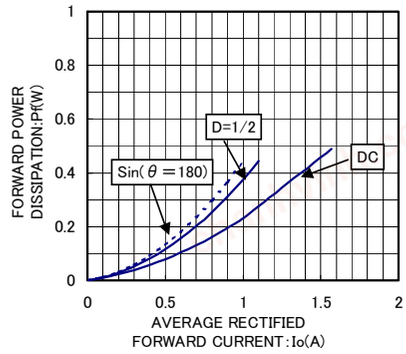
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



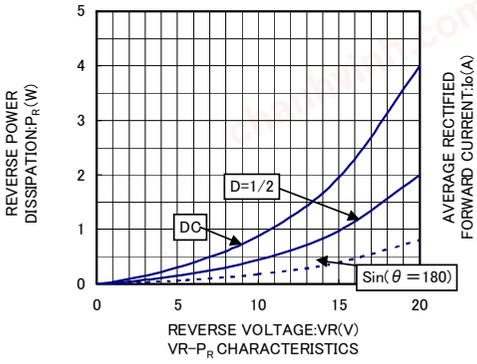
Rth-t CHARACTERISTICS

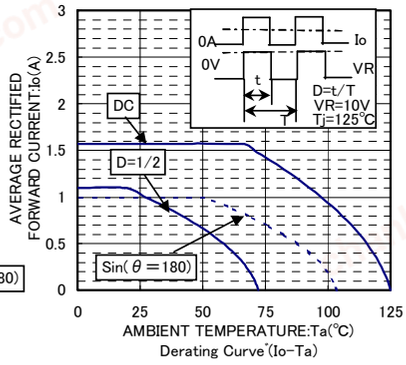


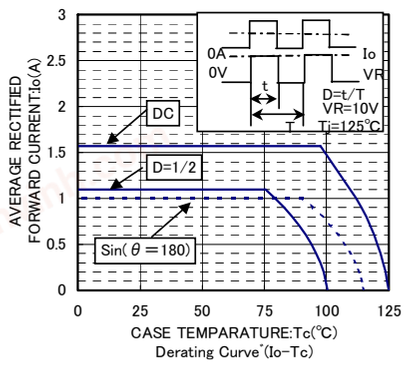
Io-Pf CHARACTERISTICS

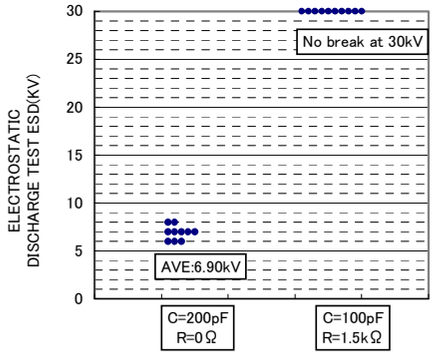
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ESD DISPERSION MAP

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