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ROHM SEMICONDUCTOR

Data Sheet

Schottky Barrier Diode

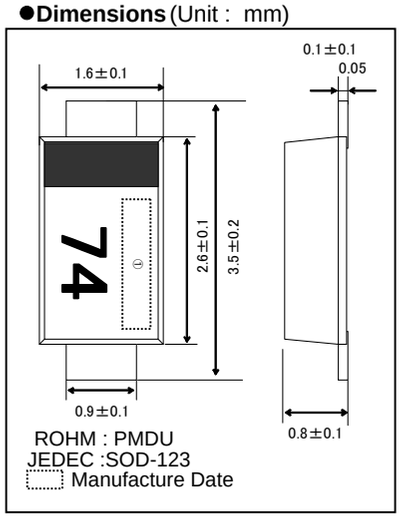
RB160M-40

●**Applications**
General rectification

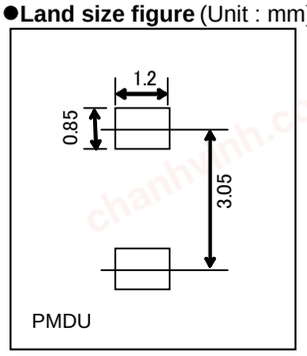
●**Features**
1)Small power mold type.（PMDU）
2)Low IR
3)High reliability

●**Construction**
Silicon epitaxial

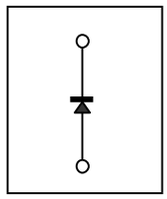
●**Dimensions** (Unit : mm)



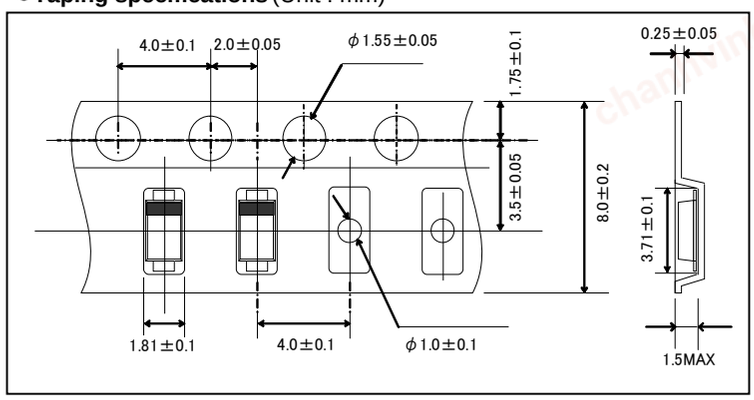
●**Land size figure** (Unit : mm)



●**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	40	V
Average rectified forward current	Io	1	A
Forward current surge peak （60Hz・1cyc）	I_{FSM}	30	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−40 to +150	°C

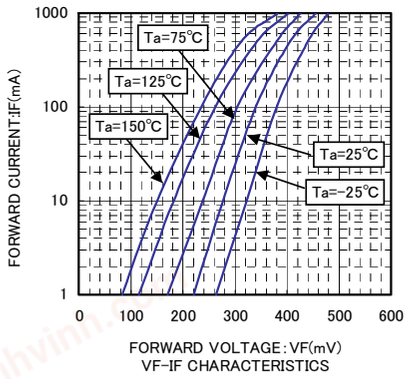
(*1)Mounted on epoxy board. 180°Half sine wave

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

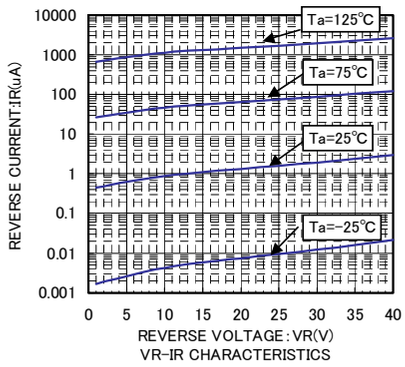
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.46	0.51	V	I_F=1.0A
Reverse current	I_R	-	4.0	30	μA	V_R=40V

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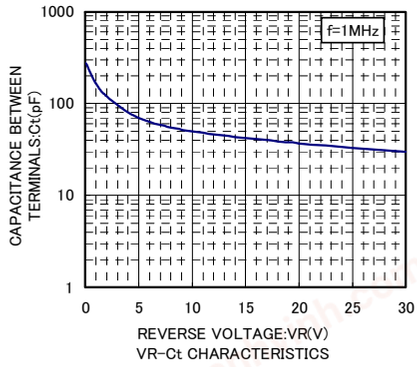
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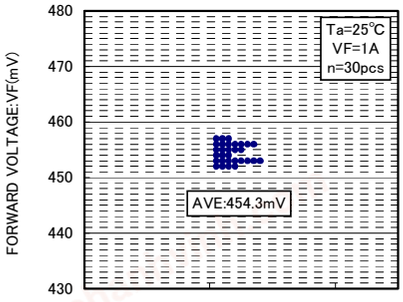
VF-IF CHARACTERISTICS



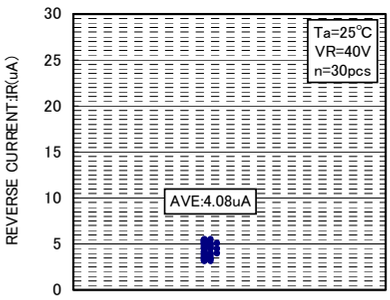
VR-IR CHARACTERISTICS



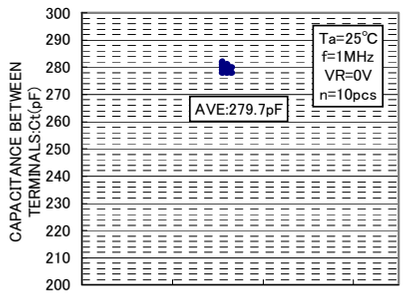
VR-Ct CHARACTERISTICS



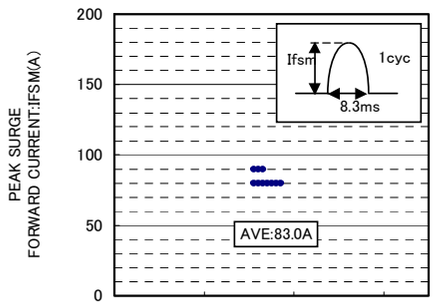
VF DISPERSION MAP



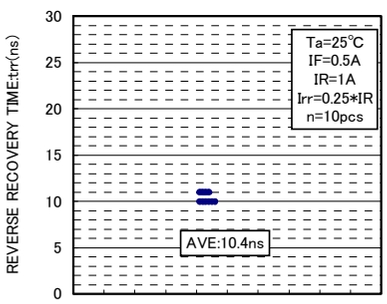
IR DISPERSION MAP



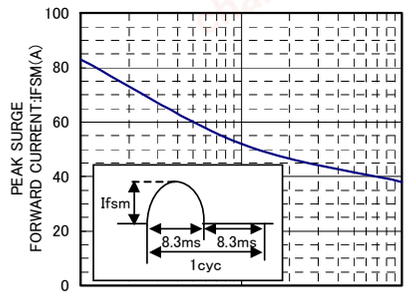
Ct DISPERSION MAP



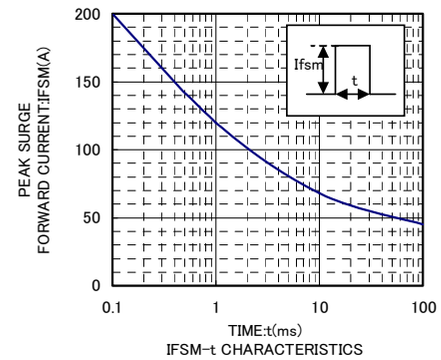
IFSM DISRESION MAP



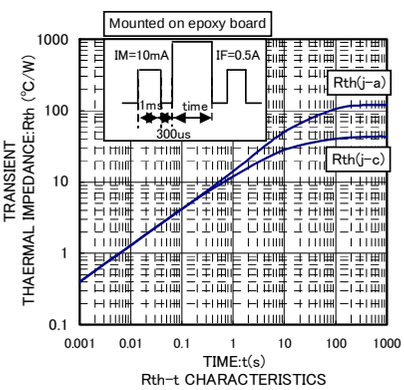
trr DISPERSION MAP



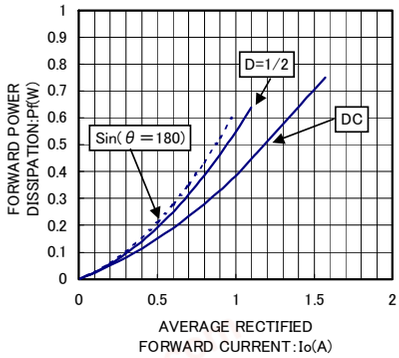
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



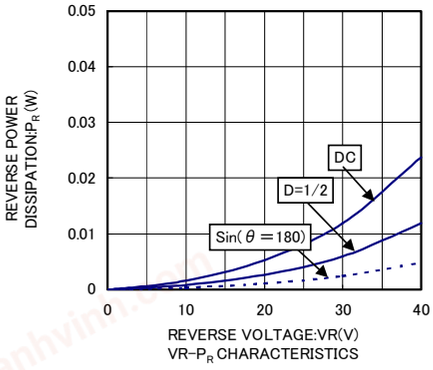
Rth-t CHARACTERISTICS



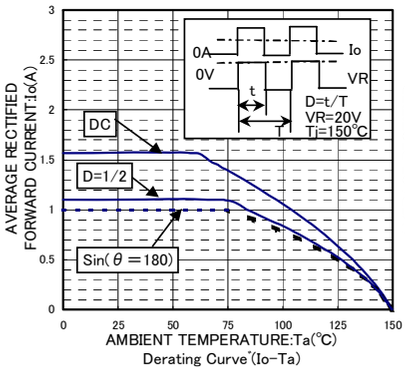
Io-Pf CHARACTERISTICS

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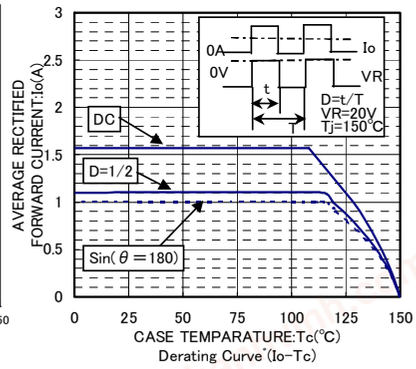
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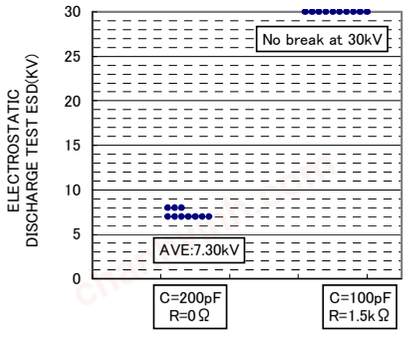
VR-P_R CHARACTERISTICS



Derating Curve(Io-Ta)



Derating Curve(Io-Tc)



ESD DISPERSION MAP

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