Schottky Barrier Diode

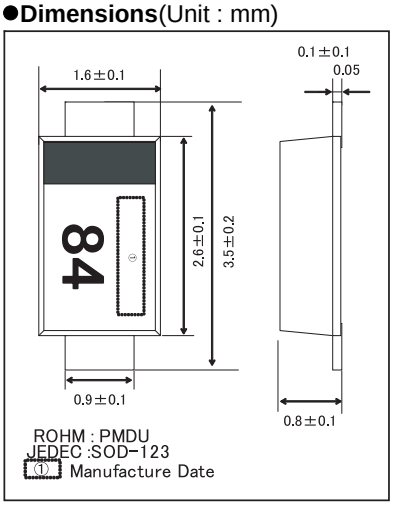
RB051M-2Y

●Applications
General rectification

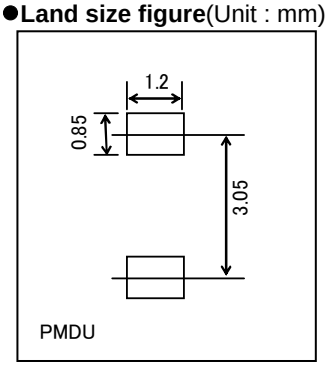
●Features
1)Small power mold type.（PMDU）
2)Ultra Low V_F
3)High reliability

●Construction
Silicon epitaxial planer

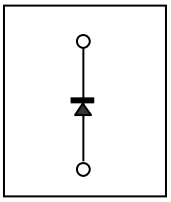
●Dimensions(Unit : mm)



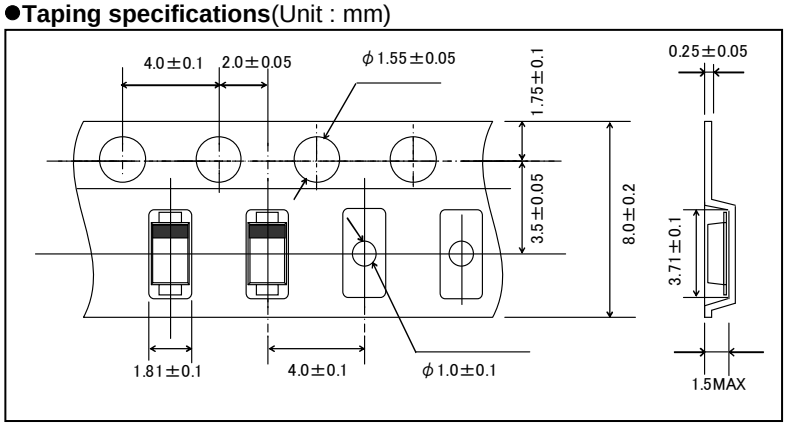
●Land size figure(Unit : mm)



●Structure



●Taping specifications(Unit : mm)



●Absolute maximum ratings(Ta=25°C)

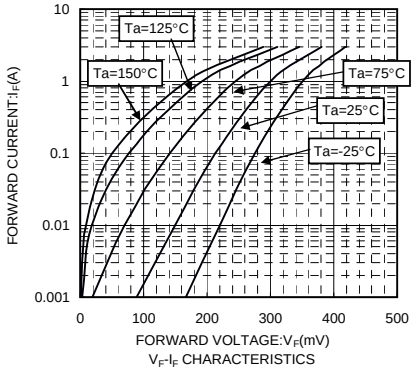
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	20	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current(*1)	Io	3	A
Forward current surge peak（60Hz・1cyc）	I_{FSM}	30	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

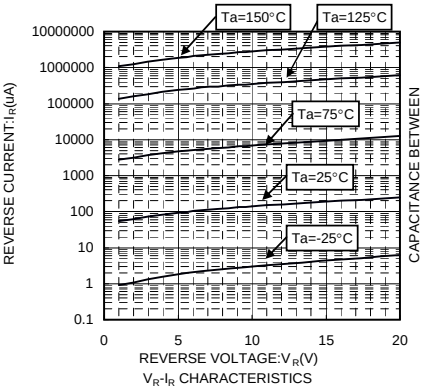
(*1)Mounting on alumina board. Tc=95°C Max.

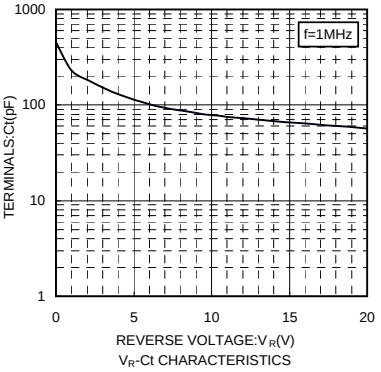
●Electrical characteristics(Ta=25°C)

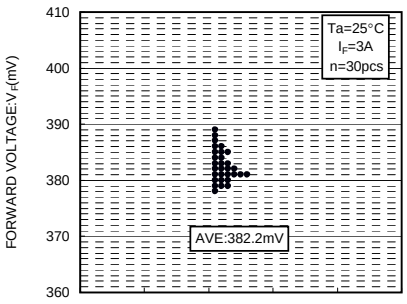
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.46	V	I_F=3A
Reverse current	I_R	-	-	0.9	mA	V_R=20V

●**Electrical characteristic curves**

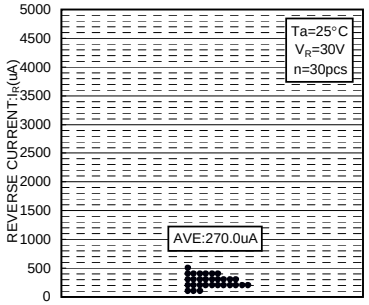




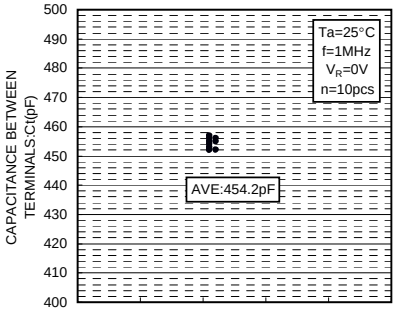




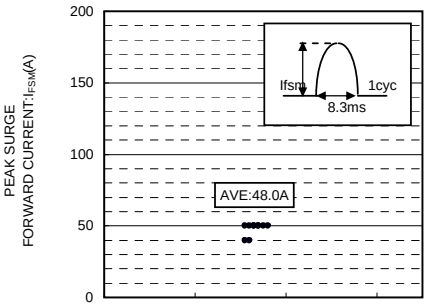
VF DISPERSION MAP



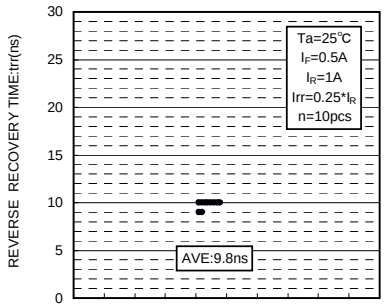
IR DISPERSION MAP



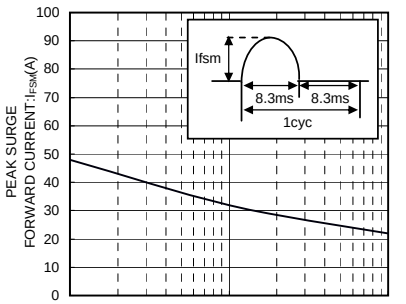
Ct DISPERSION MAP

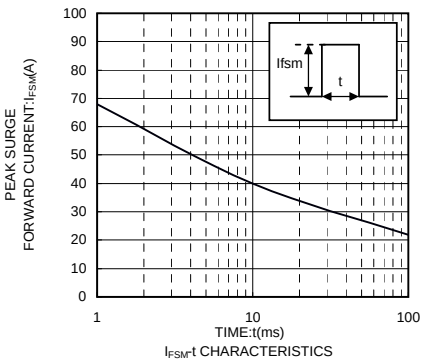


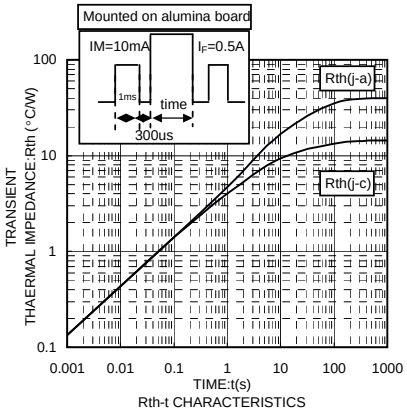
IFSM DISPERSION MAP

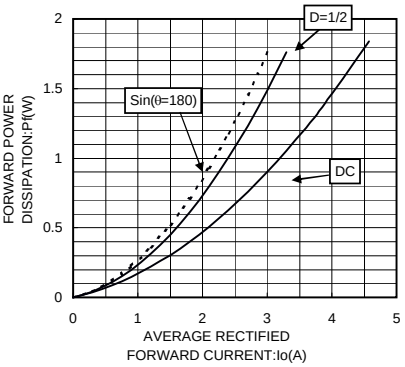


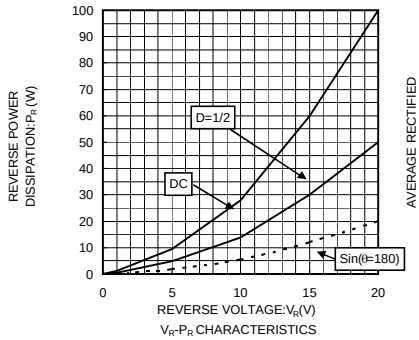
trr DISPERSION MAP



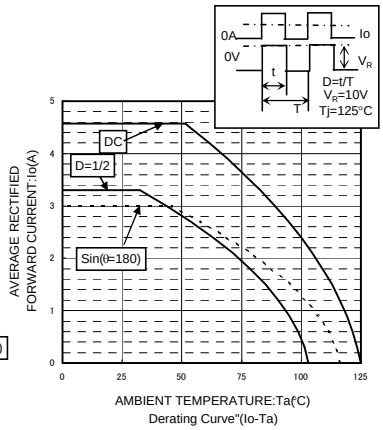




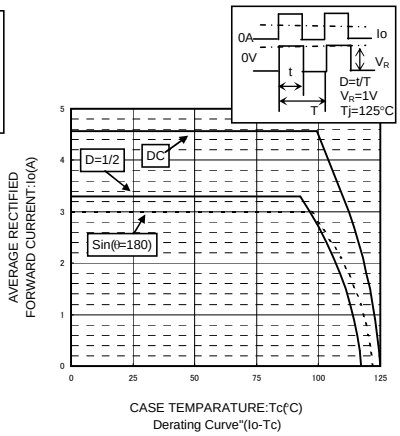




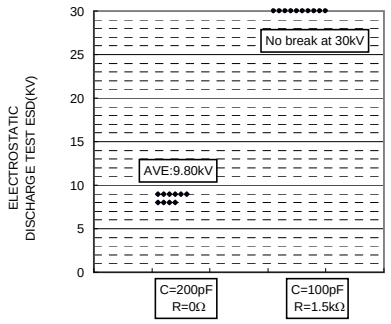
V_R-P_R CHARACTERISTICS



Derating Curve"(Io-Ta)



Derating Curve"(Io-Tc)



ESD DISPERSION MAP

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