Schottky barrier diode

RB060M-30

●Applications

General rectification

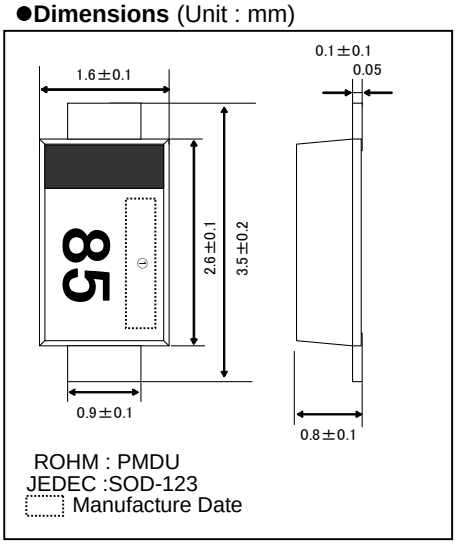
●Features

1) Small power mold type.(PMDU)
2) Low I_R
3) High reliability

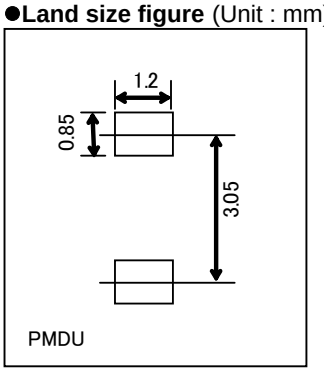
●Construction

Silicon epitaxial planar

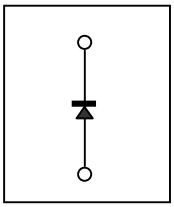
●Dimensions (Unit : mm)



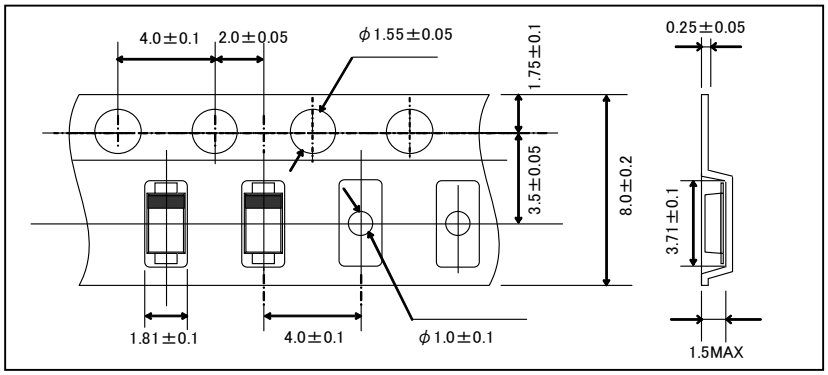
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	Io	2	A
Forward current surge peak (60Hz/1cyc)	I_{FSM}	55	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 to +150	°C

(*1)Tc=65°C MAX. Mounted on epoxy board. 180°Half sine wave

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F1	0.32	0.4	0.45	V	I_F=1.0A
	V_F2	0.36	0.44	0.49	V	I_F=2.0A
Reverse current	I_R	-	10	50	μA	V_R=30V
ESD break down voltage	ESD	7	-	-	kV	C=200pF , R=0Ω forward and reverse : 1 time

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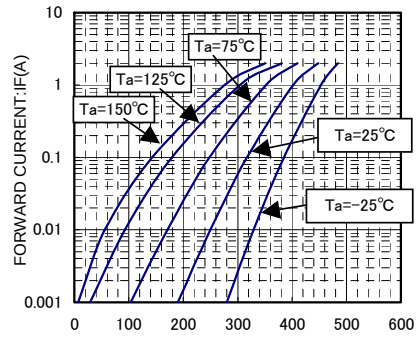
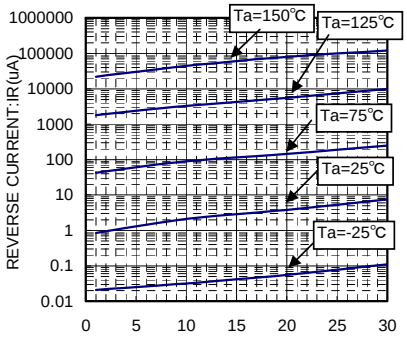
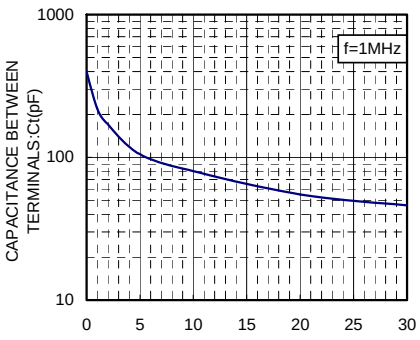


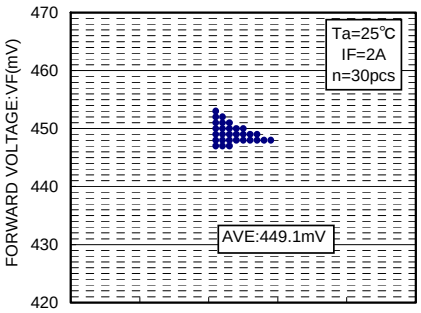
VF-IF CHARACTERISTICS



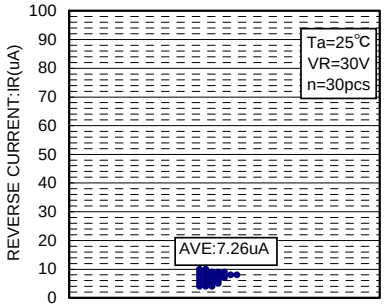
VR-IR CHARACTERISTICS



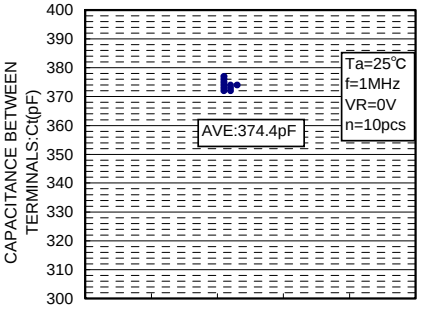
VR-Ct CHARACTERISTICS



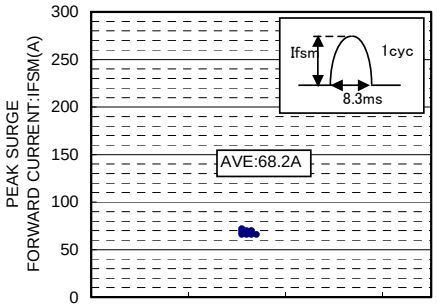
VF DISPERSION MAP



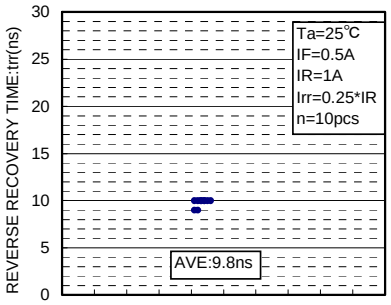
IR DISPERSION MAP



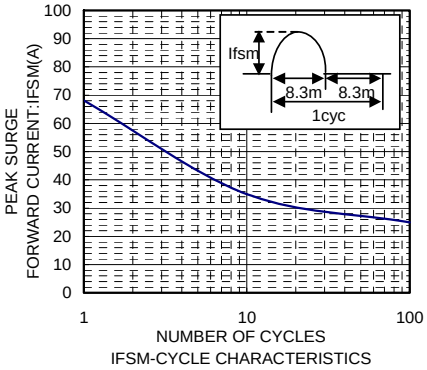
Ct DISPERSION MAP



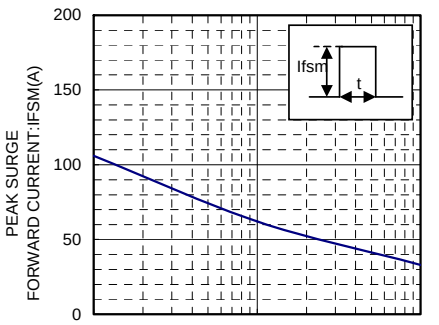
IFSM DISPERSION MAP



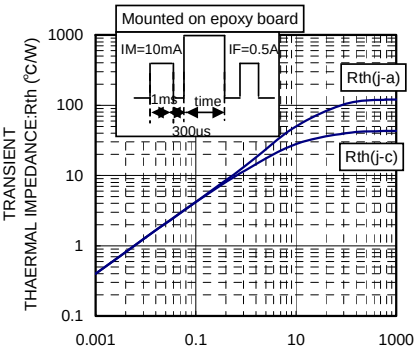
trr DISPERSION MAP



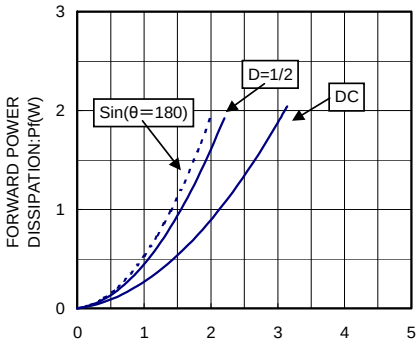
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

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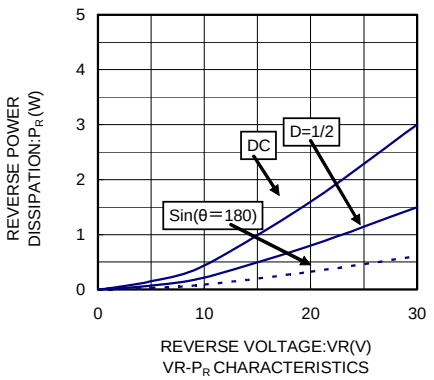
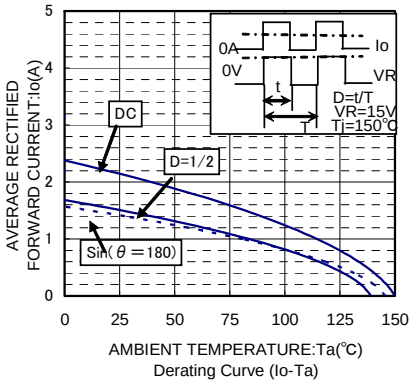
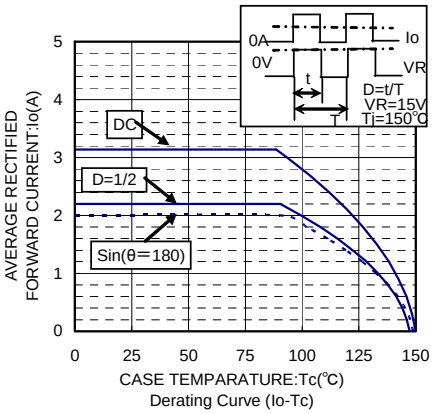


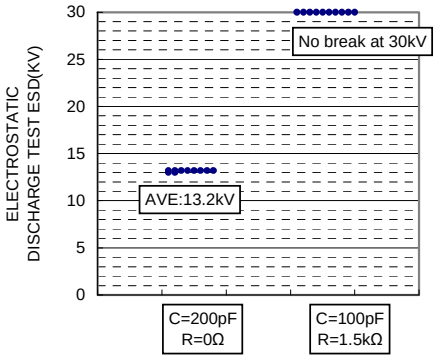
VR-P_R CHARACTERISTICS



Derating Curve (Io-Ta)



Derating Curve (Io-Tc)



ESD DISPERSION MAP

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