Schottky barrier diode

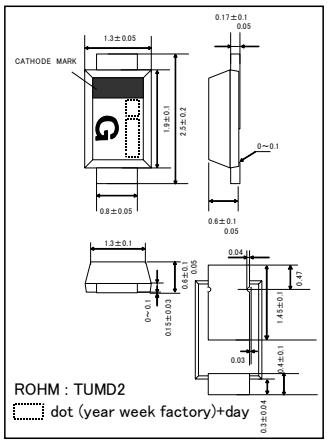
RB160VA-40

●Applications
General rectification

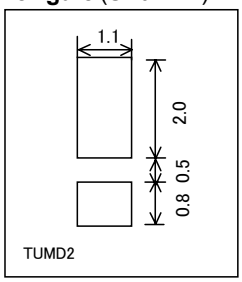
●Features
1) Small mold type. (TUMD2)
2) Low I_F, Low I_R.
3) High reliability.

●Construction
Silicon epitaxial planar

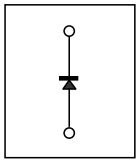
● External dimensions (Unit : mm)



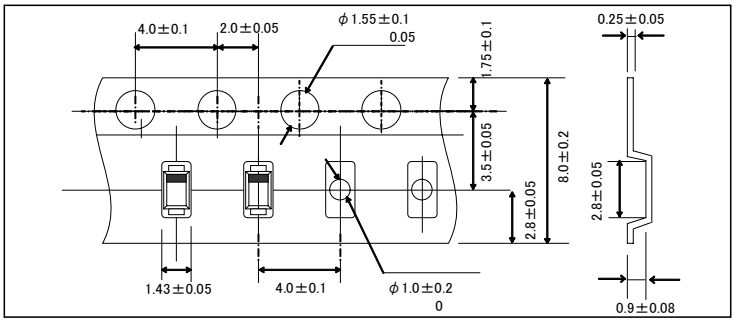
● Land size figure (Unit : mm)



●Structure



● Taping specifications (Unit : mm)



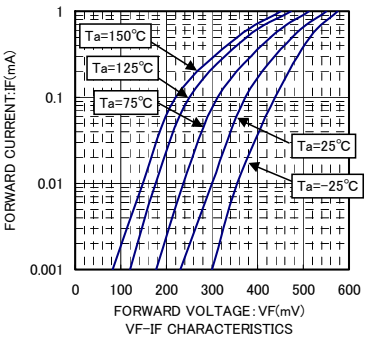
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	Io	1	A
Forward peak surge current（60Hz・1cyc）	I_{FSM}	5	A
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-40 to +150	℃

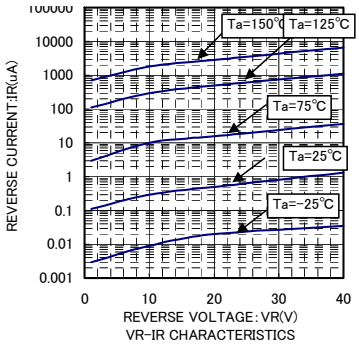
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.50	0.55	V	I_F=700mA
Reverse current	I_R	-	1.5	50	μA	V_R=40V

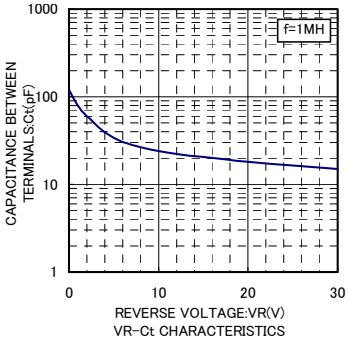
●**Electrical characteristic curves** (Ta=25°C)



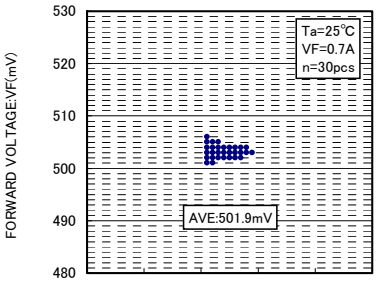
VF-IF CHARACTERISTICS



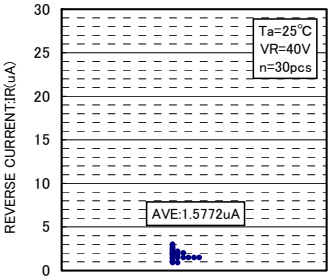
VR-IR CHARACTERISTICS



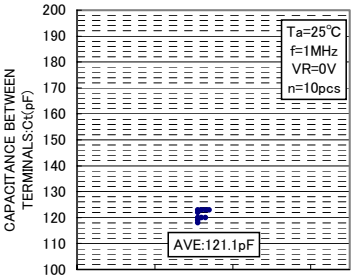
VR-Ct CHARACTERISTICS



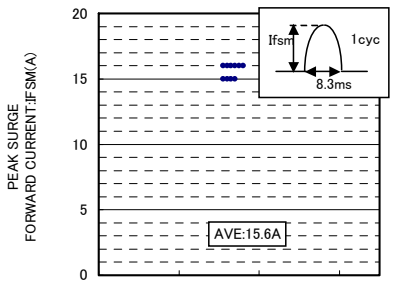
VF DISPERSION MAP



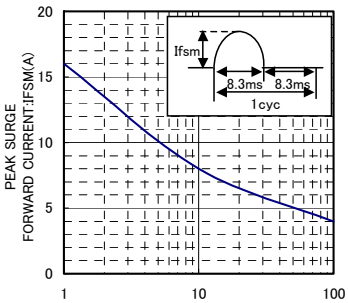
IR DISPERSION MAP



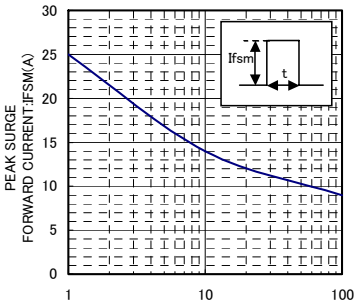
Ct DISPERSION MAP



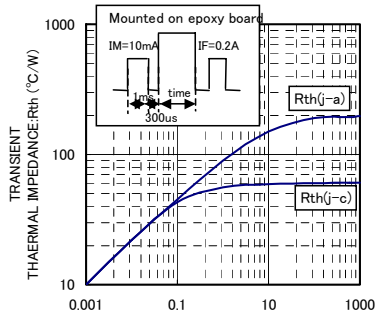
IFSM DISRESION MAP



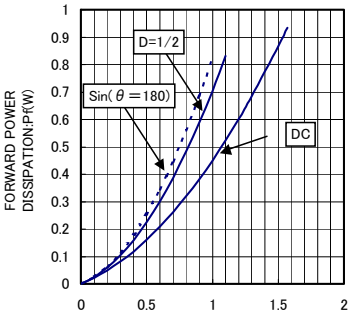
IFSM-CYCLE CHARACTERISTICS



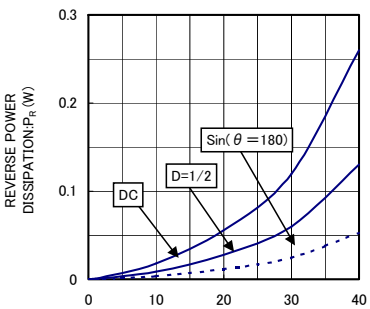
IFSM-t CHARACTERISTICS



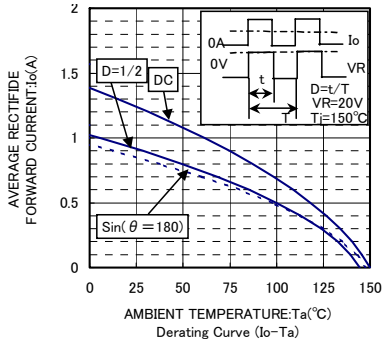
Rth-t CHARACTERISTICS



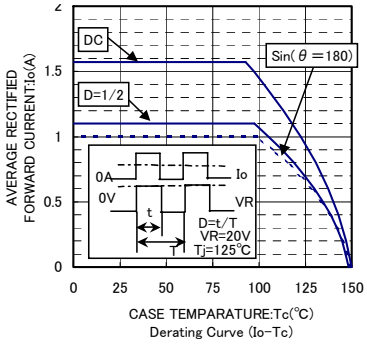
Io-Pf CHARACTERISTICS



VR-P_R CHARACTERISTICS



Derating Curve (Io-Ta)



Derating Curve (Io-Tc)

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