Schottky barrier diode

RB060L-40

●Applications

Rectifying small power

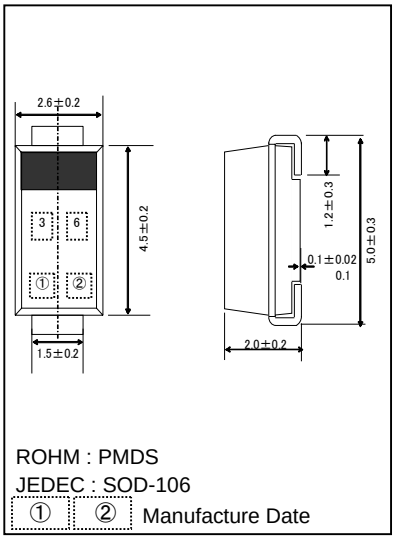
●Features

1)Small power mold type.
(PMDS)
2) Low IR
3) High reliability

●Construction

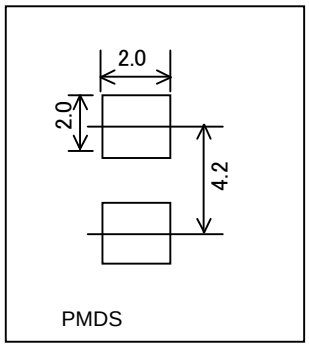
Silicon epitaxial planar

●Dimensions (Unit : mm)

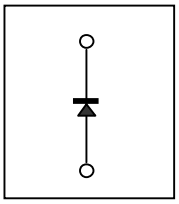


ROHM : PMDS
JEDEC : SOD-106
① ② Manufacture Date

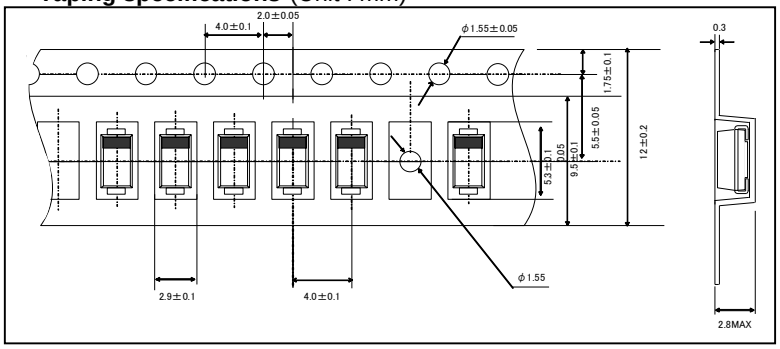
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



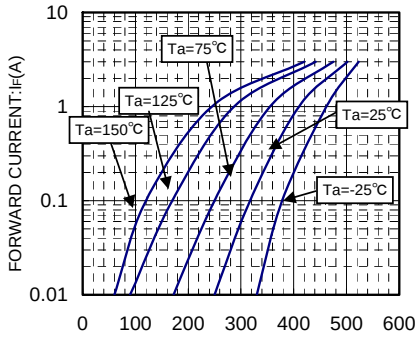
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	Io	2	A
Forward current surge peak（60Hz・1cyc）	I_{FSM}	70	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−40 to +125	°C

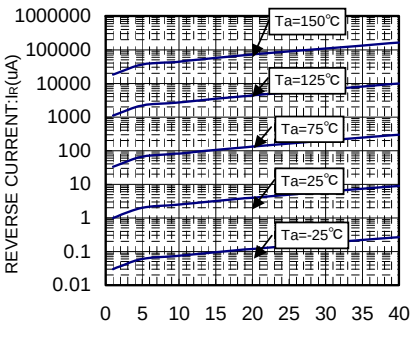
(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristics (Ta=25°C)

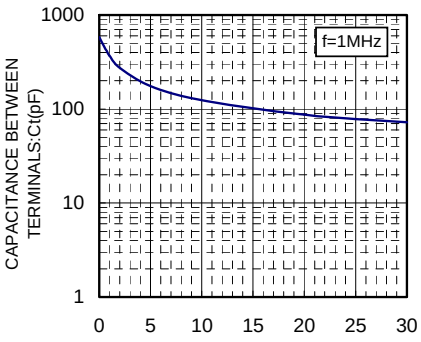
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F1	-	-	0.50	V	I_F=2.0A
	V_F2	-	-	0.45	V	I_F=1.0A
Reverse current	I_R	-	-	1	mA	V_R=40V
Thermal impedance	θj-a	-	-	90	°C/W	Mounteing on alumina board
	θj-a	-	-	120		Mounted on epxy board



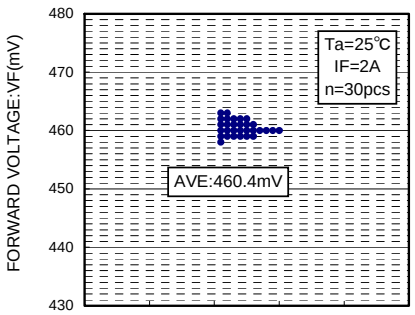
VF-IF CHARACTERISTICS



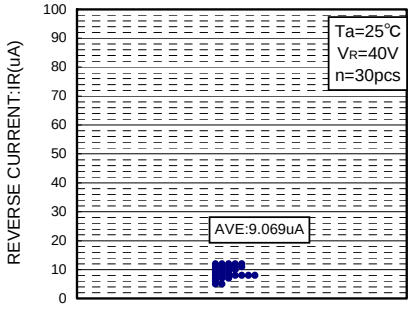
VR-IR CHARACTERISTICS



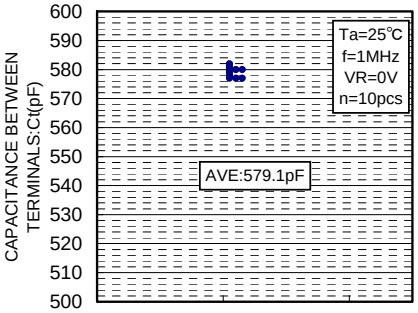
VR-Ct CHARACTERISTICS



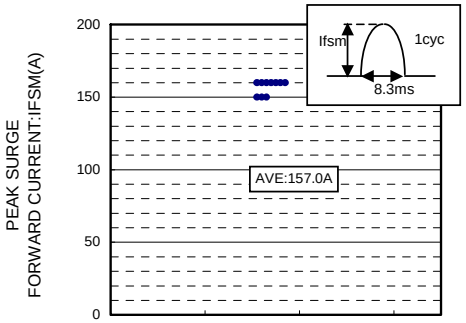
VF DISPERSION MAP



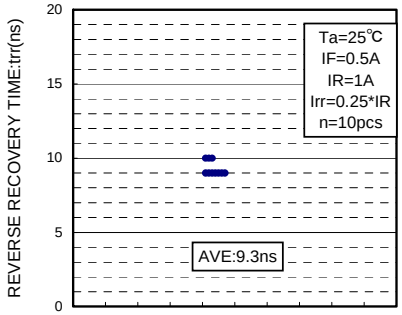
IR DISPERSION MAP



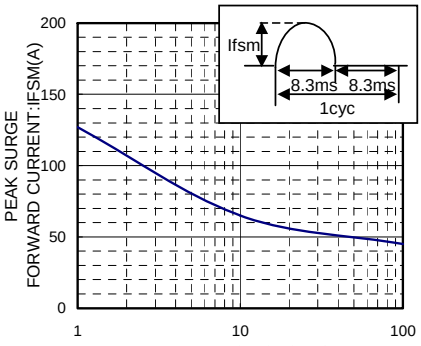
Ct DISPERSION MAP



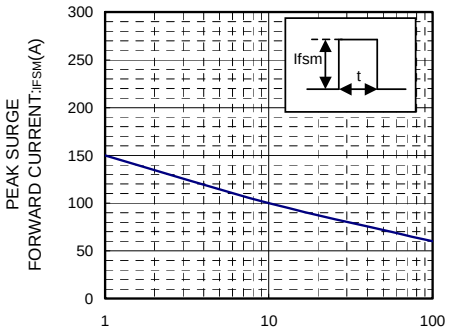
IFSM DISRESION MAP



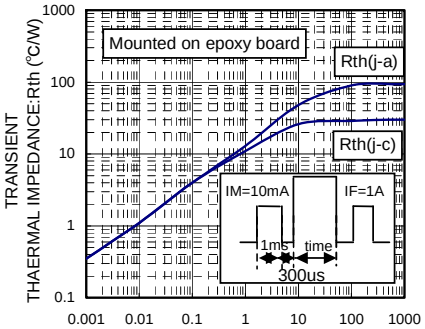
trr DISPERSION MAP



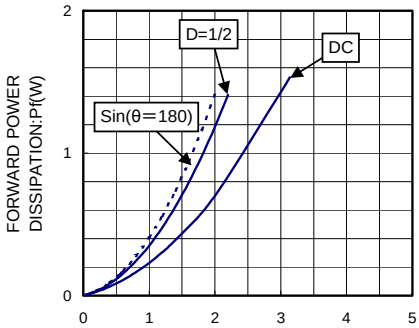
IFSM-CYCLE CHARACTERISTICS



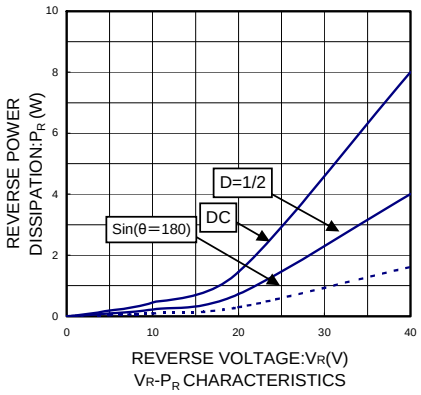
IFSM-t CHARACTERISTICS



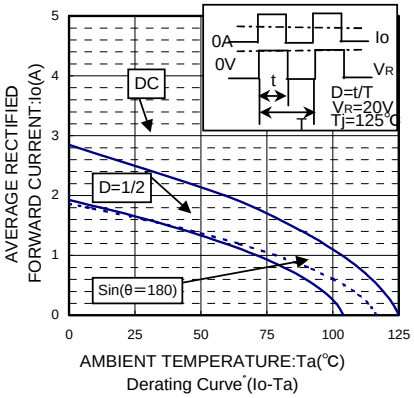
Rth-t CHARACTERISTICS



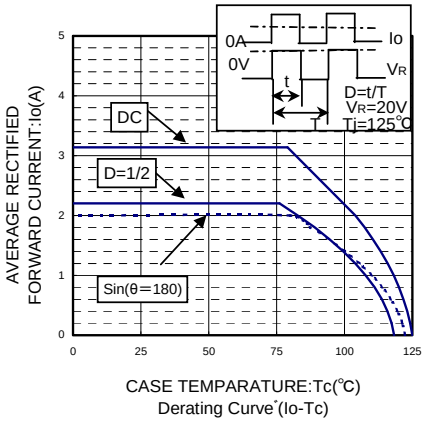
Io-Pf CHARACTERISTICS



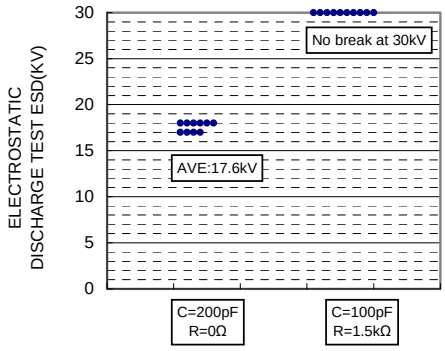
V_R-P_R CHARACTERISTICS



Derating Curve(Io-Ta)



Derating Curve(Io-Tc)



ESD DISPERSION MAP

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