

Schottky barrier diode

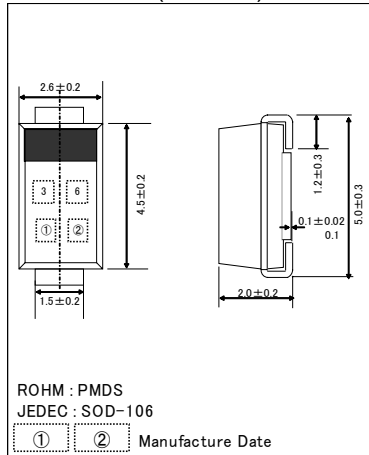
RB060L-40

●Applications
Rectifying small power

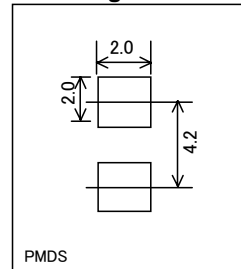
●Features
1) Small power mold type. (PMDS)
2) Low I_R
3) High reliability

●Construction
Silicon epitaxial planar

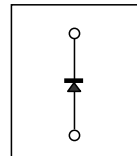
●Dimensions (Unit : mm)



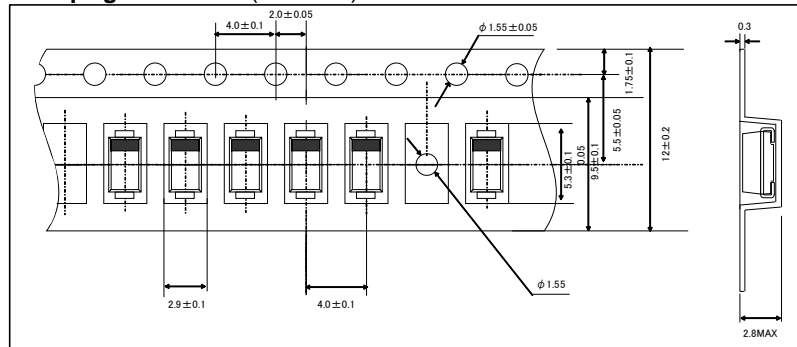
●Land size figure



●Structure



●Taping dimensions (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	I_o	2	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	70	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

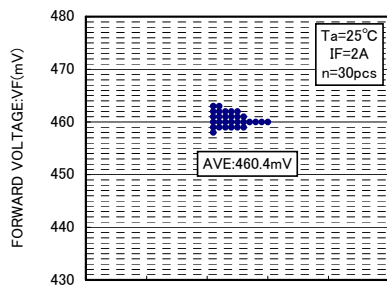
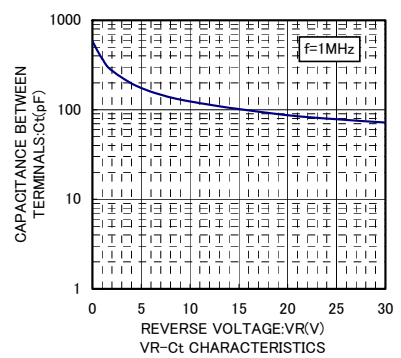
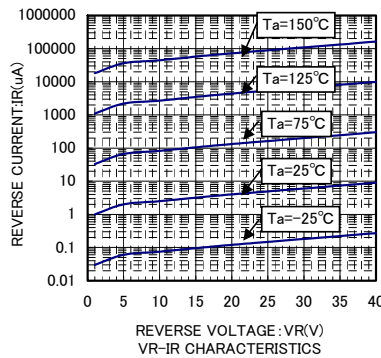
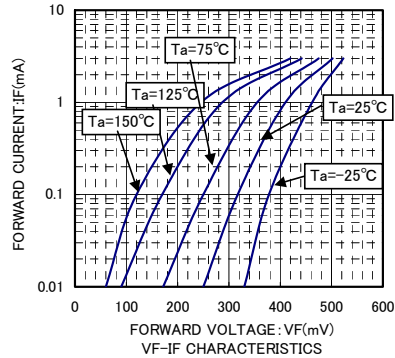
(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristic (Ta=25°C)

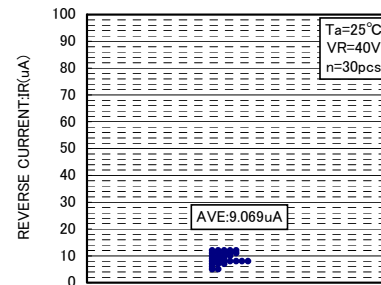
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.50	V	$I_F=2.0A$
	V_{F2}	-	-	0.45	V	$I_F=1.0A$
Reverse current	I_R	-	-	1	mA	$V_R=40V$
Thermal impedance	θ_{j-a}	-	-	90	°C/W	Mounting on alumina board
	θ_{j-c}	-	-	120		Mounted on epoxy board

Diodes

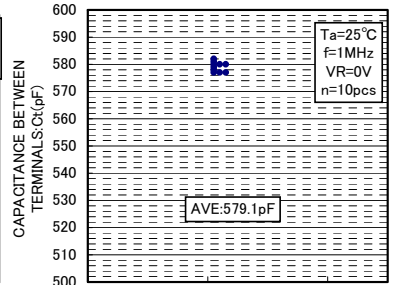
●Electrical characteristic curves



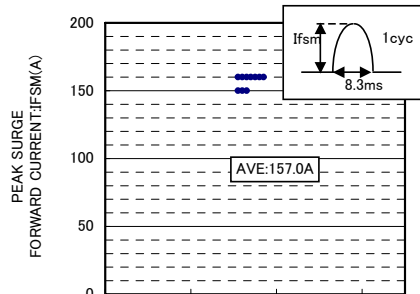
VF DISPERSION MAP



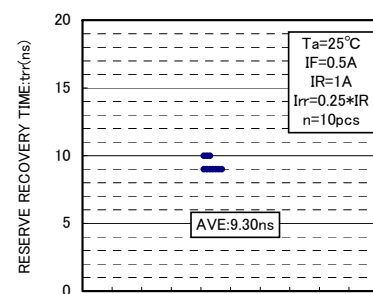
IR DISPERSION MAP



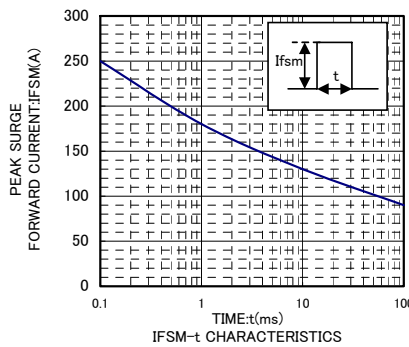
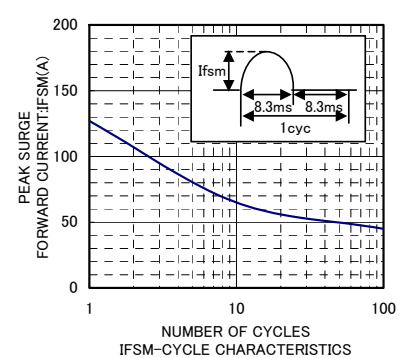
Ct DISPERSION MAP



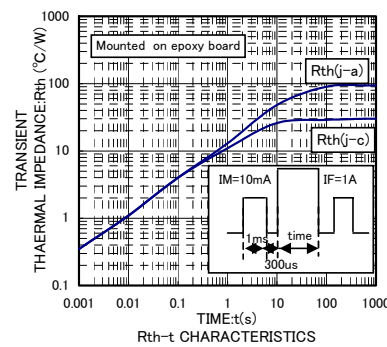
IFSM DISPERSION MAP



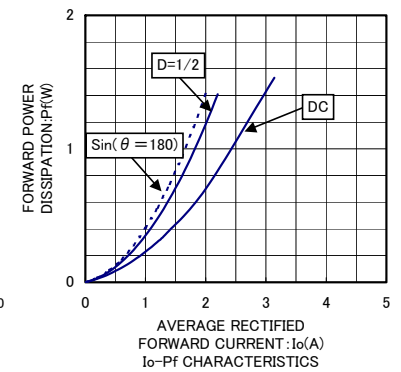
trr DISPERSION MAP



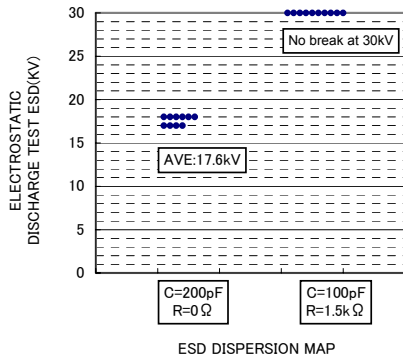
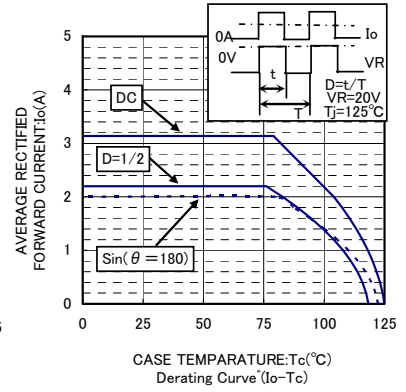
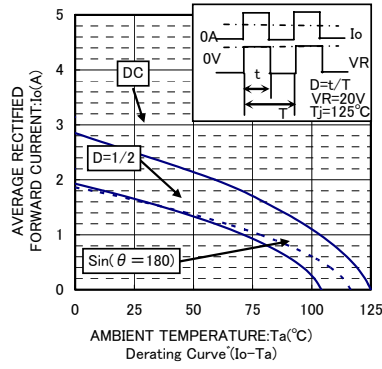
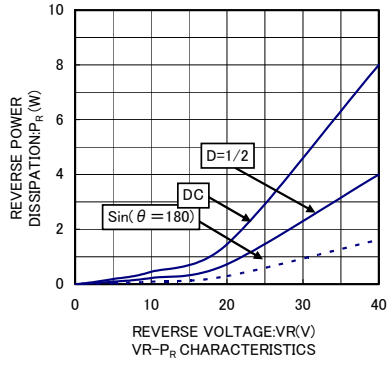
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Diodes



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