

Schottky Barrier Diode

RB056L-40

●Applications

General rectification

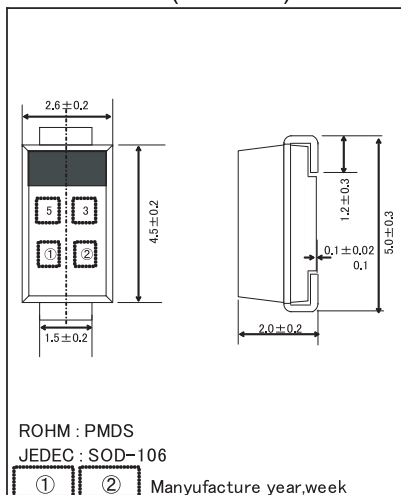
●Features

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

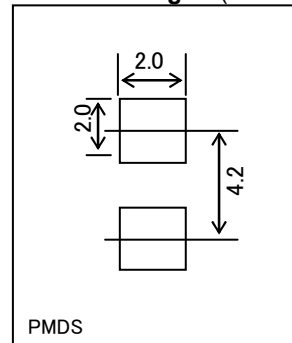
●Construction

Silicon epitaxial planer

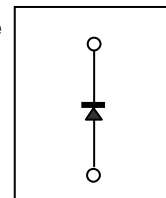
●Dimensions(Unit : mm)



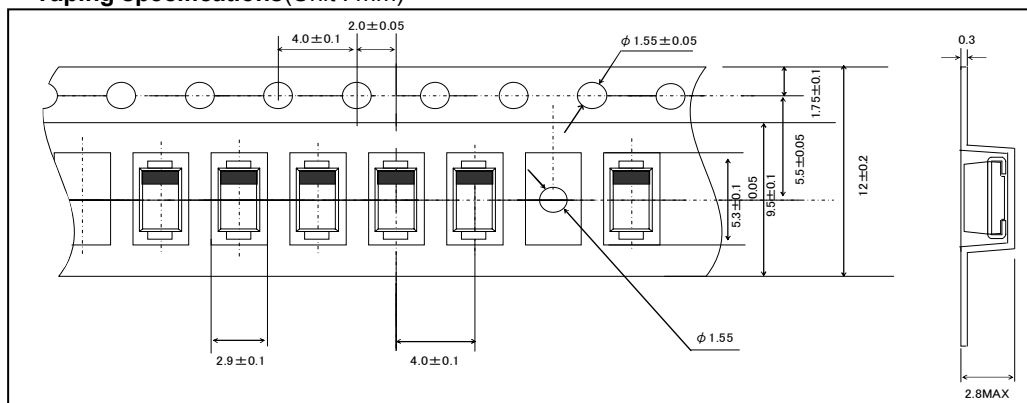
●Land size figure(Unit : mm)



●Structure



●Taping specifications(Unit : mm)



●Absolute maximum ratings (Ta=25°C)

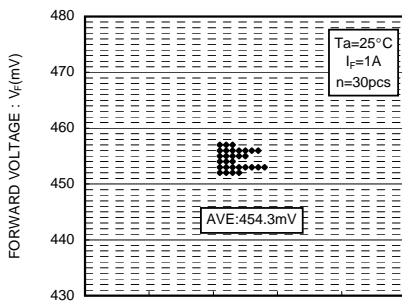
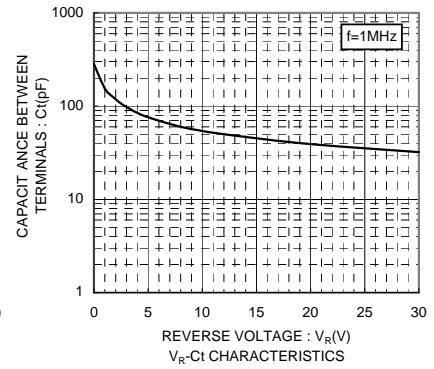
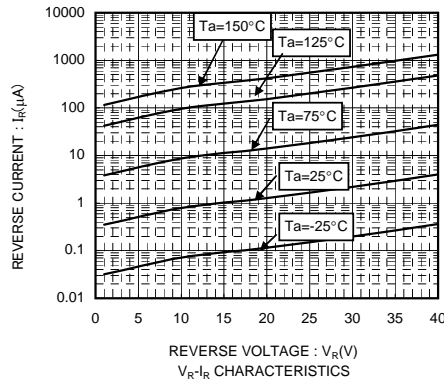
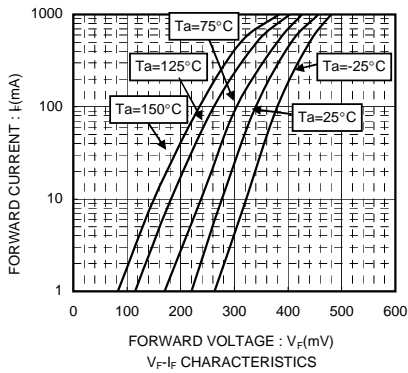
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_O	3	A
Forward current surge peak (60Hz / 1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40to+150	°C

(*1) Mounting on epoxi board. ($T_c=63^{\circ}\text{C}_{MAX.}$)

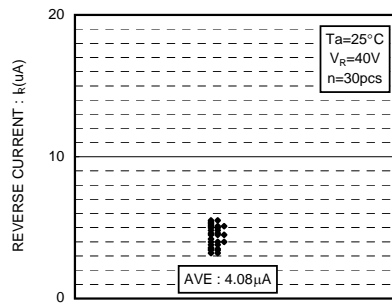
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.67	V	$I_F=3.0\text{A}$
	V_{F2}	-	-	0.58	V	$I_F=2.0\text{A}$
Reverse current	I_R	-	-	50	μA	$V_R=40\text{V}$

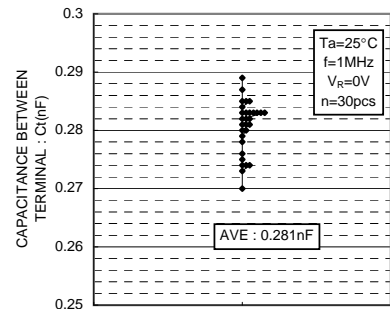
●Electrical characteristics curves



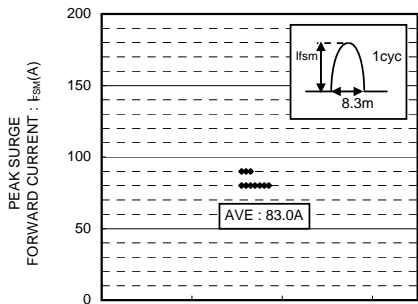
V_F DISPERSION MAP



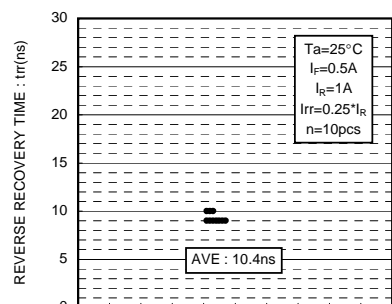
I_R DISPERSION MAP



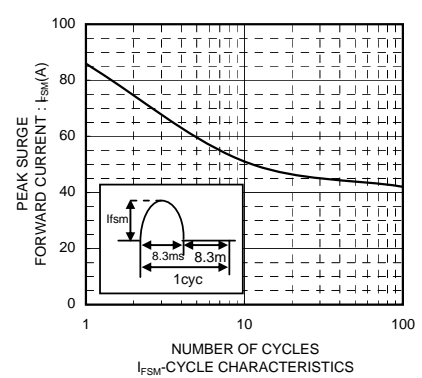
C_t DISPERSION MAP



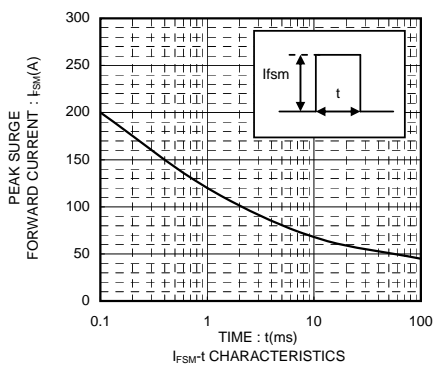
I_{FSM} DISRESION MAP



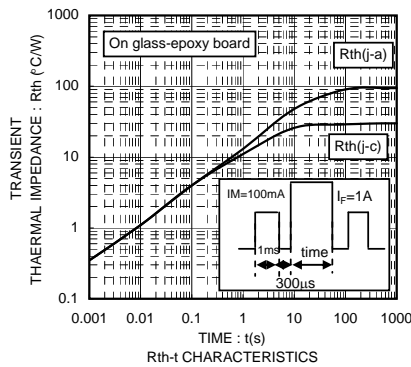
t_{rr} DISPERSION MAP



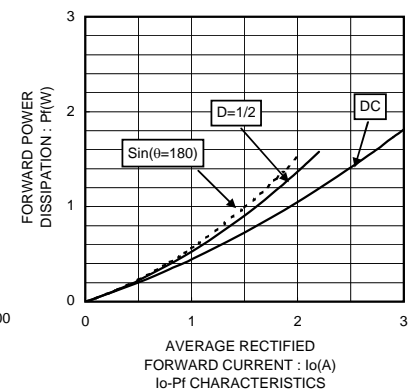
I_{FSM} CYCLE CHARACTERISTICS



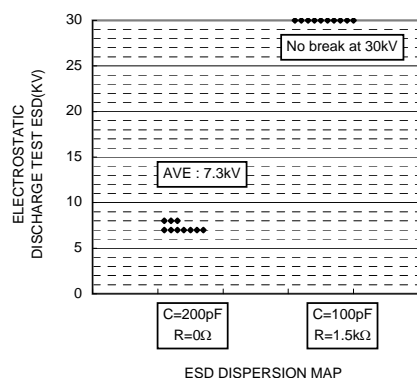
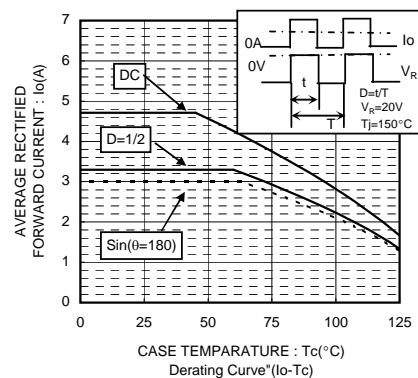
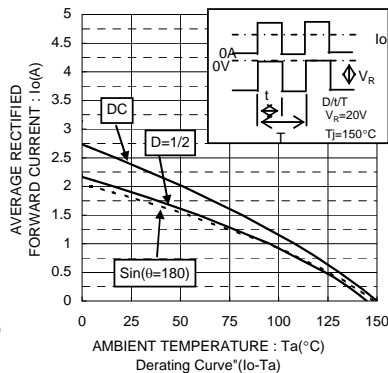
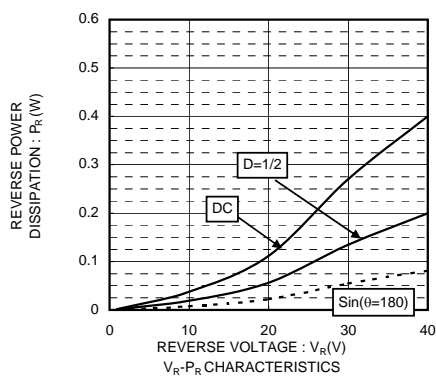
$I_{FSM} \cdot t$ CHARACTERISTICS



$R_{th} \cdot t$ CHARACTERISTICS



I_o -P CHARACTERISTICS



Notes

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