



**THE DATASHEET OF
RB050LA-40TFTR**



Schottky barrier diode

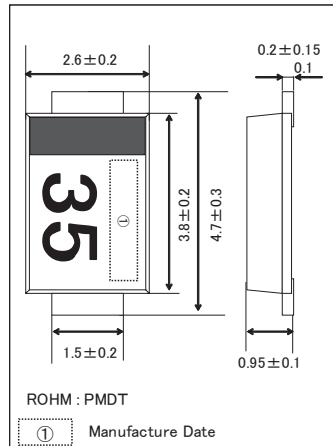
RB050LA-40

●Applications
General rectification

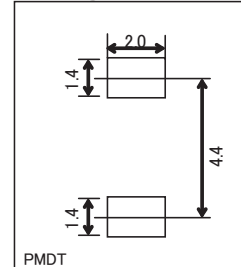
●Features
1) Small power mold type (PMDT)
2) Low I_r
3) High reliability

●Structure
Silicon epitaxial planer

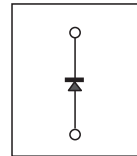
●External dimensions (Unit : mm)



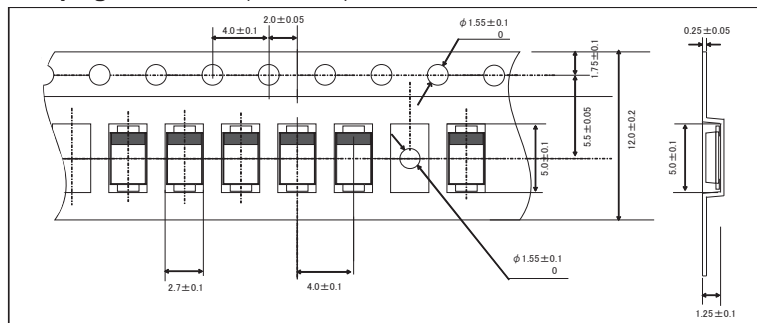
●Land size figure (Unit : mm)



●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	3	A
Forward current surge peak (60Hz · 1cyc)	I _{FSM}	70	A
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

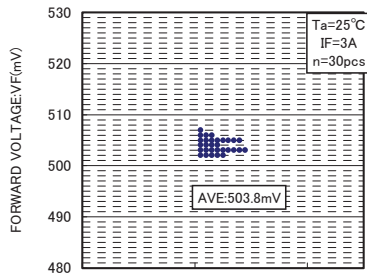
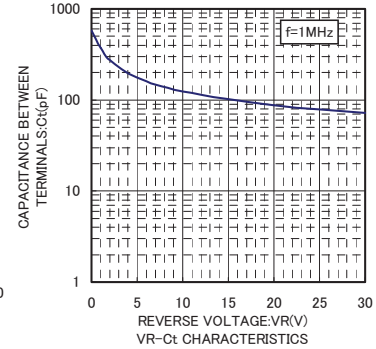
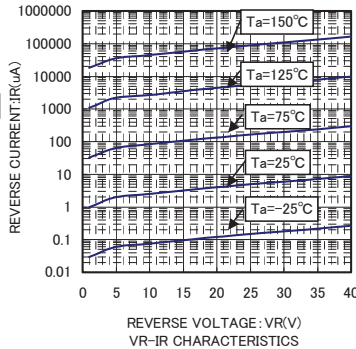
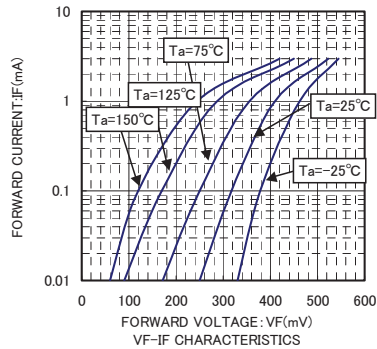
(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristic (Ta=25°C)

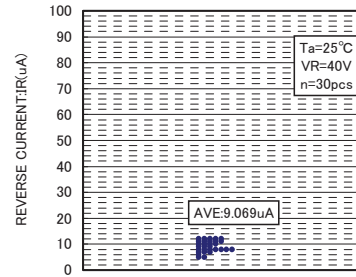
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}	-	-	0.50	V	I _F =1.5A
	V _{F2}	-	-	0.55	V	I _F =3.0A
Reverse current	I _R	-	-	0.1	mA	V _R =40V

Diodes

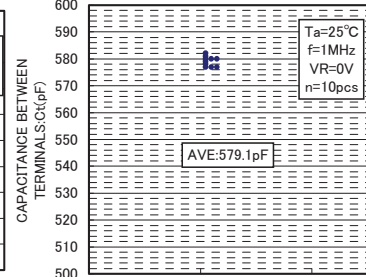
●Electrical characteristic curves



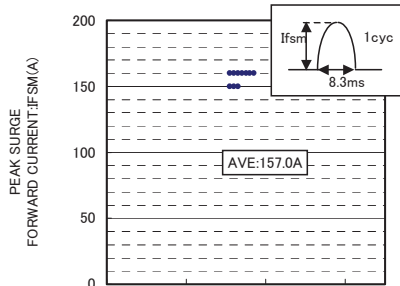
VF DISPERSION MAP



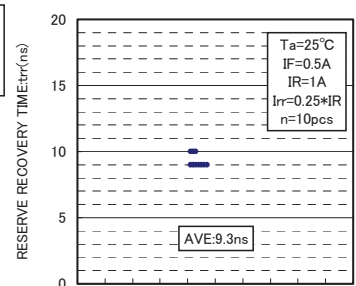
IR DISPERSION MAP



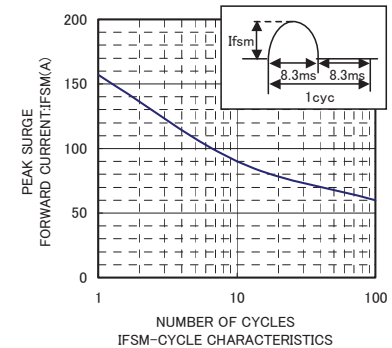
Ct DISPERSION MAP



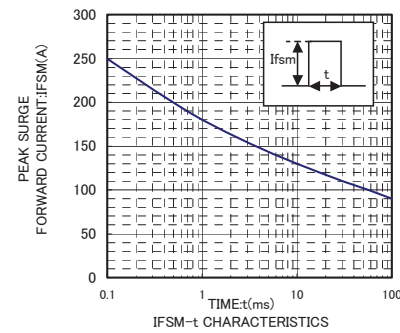
IFSM DISRESION MAP



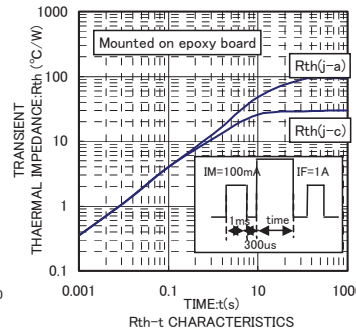
trr DISPERSION MAP



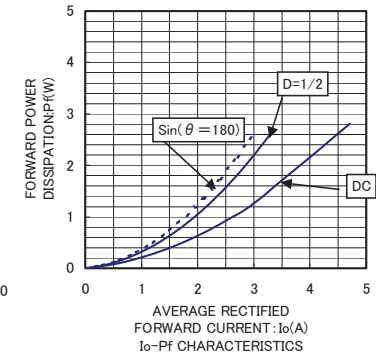
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS

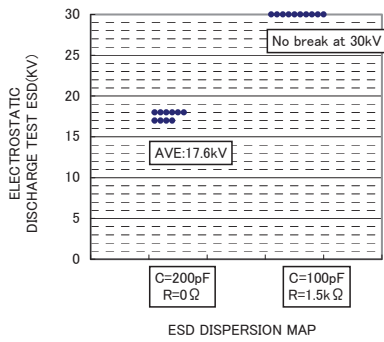
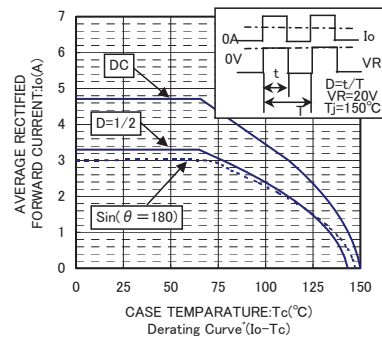
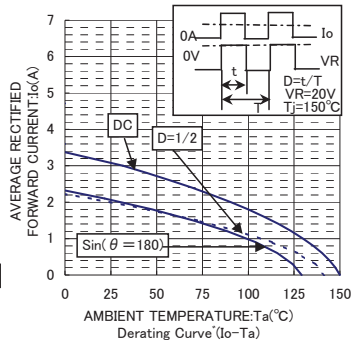
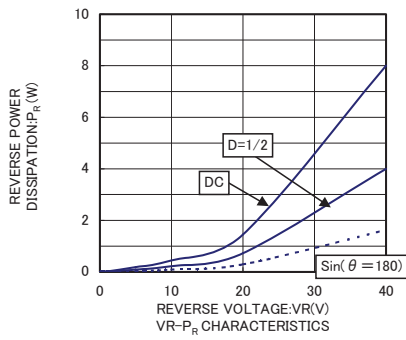


Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

Diodes



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