

Schottky barrier diode

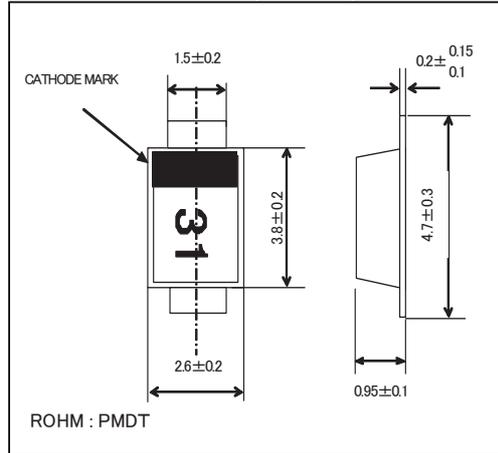
RB051LA-40

●Applications
General rectification

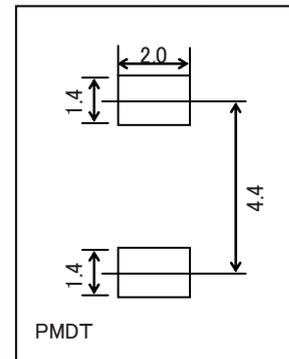
●Features
1) Small and Thin power type (PMDT)
2) High reliability.
3) Low I_r

●Structure
Silicon epitaxial planar

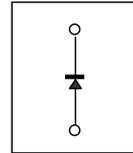
●External dimensions (Unit : mm)



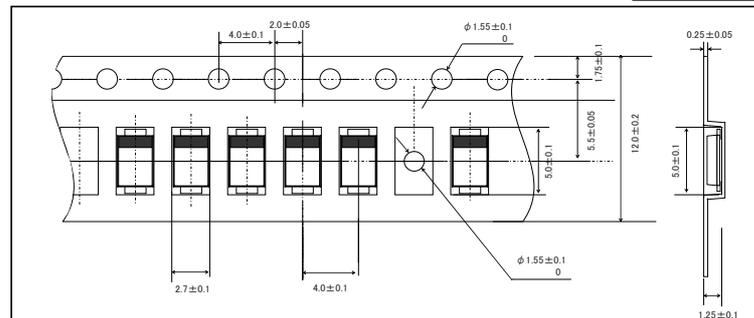
●Land size figure (Unit : mm)



●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	20	V
Average rectified forward current (*1)	I _o	3.0	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

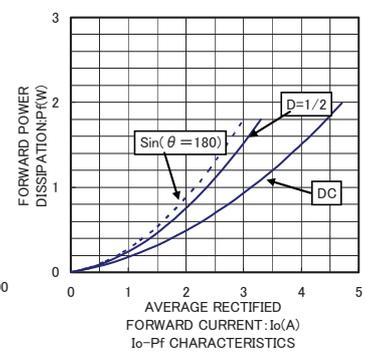
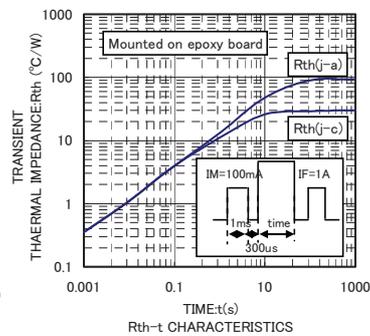
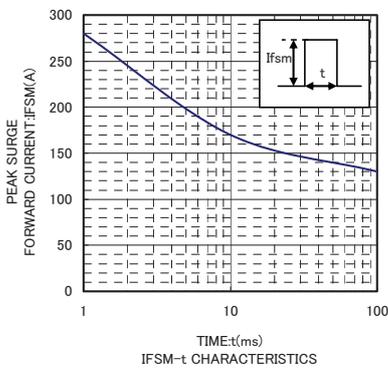
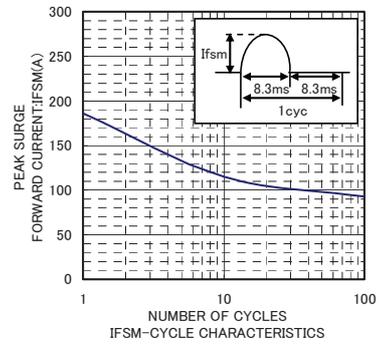
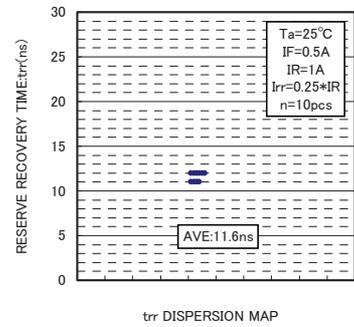
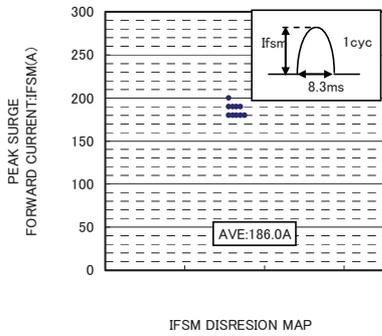
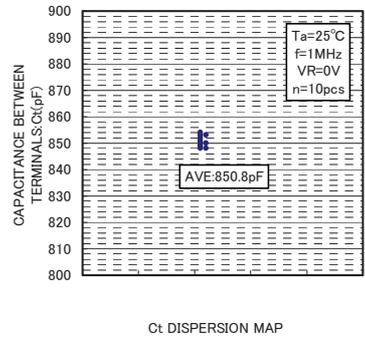
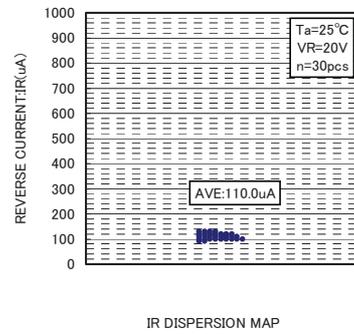
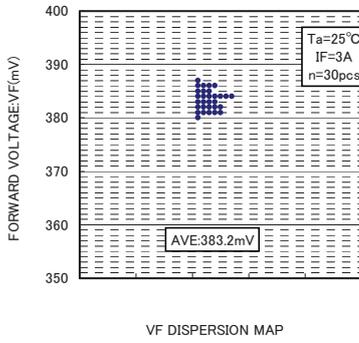
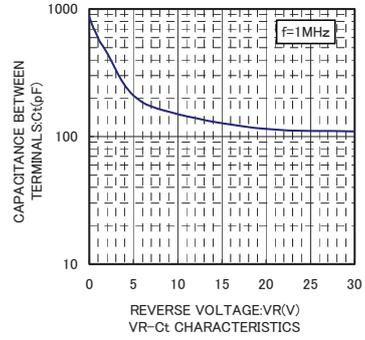
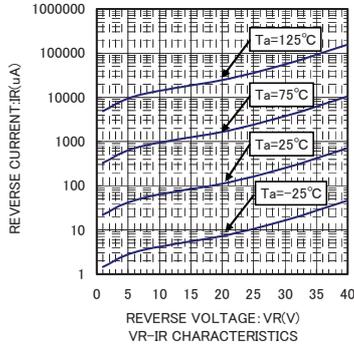
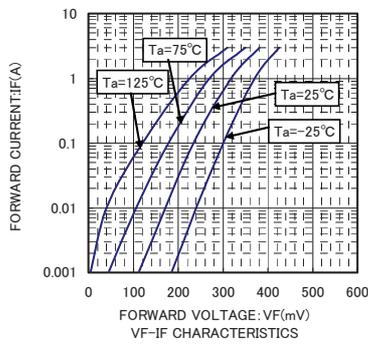
(*1) Alumina substrate at the time of assemble, TL=90°C max.

●Electrical characteristic (Ta=25°C)

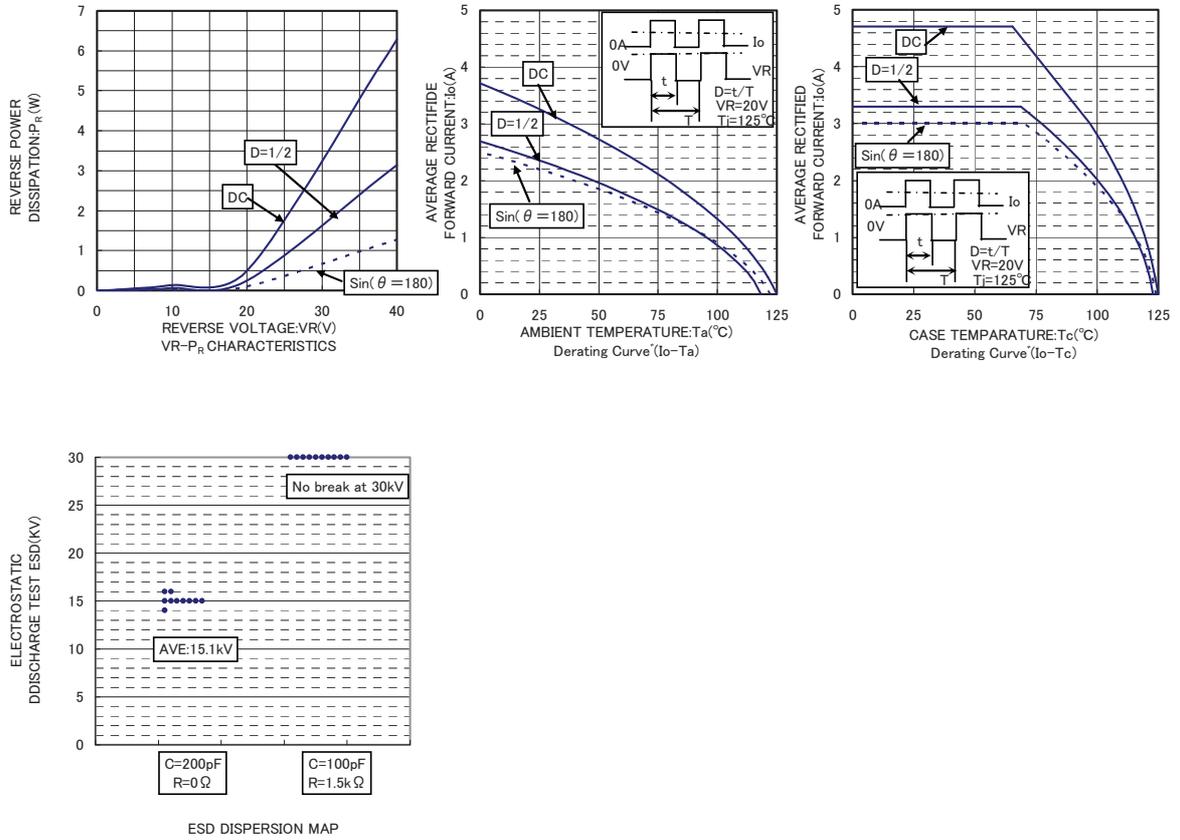
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}	-	-	0.35	V	I _F =1A
	V _{F2}	-	-	0.45	V	I _F =3A
Reverse current	I _{R1}	-	-	1	mA	V _R =20V
	I _{R2}	-	-	150	μA	V _R =15V

Diodes

●Electrical characteristic curves



Diodes



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