Schottky barrier diode RB051LA-40

Applications

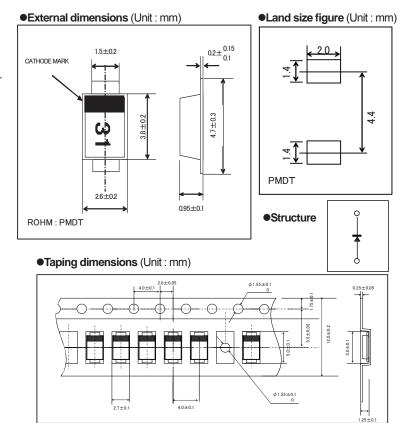
General rectification

Features

- Small and Thin power type (PMDT)
- 2) High reliability.
- 3) Low IR

Structure

Silicon epitaxial planar



● Absolute maximum ratings (Ta=25°C)

3- (· · ·)			
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current (*1)	lo	3.0	Α
Forward current surge peak (60Hz-1cyc)	I _{FSM}	70	Α
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

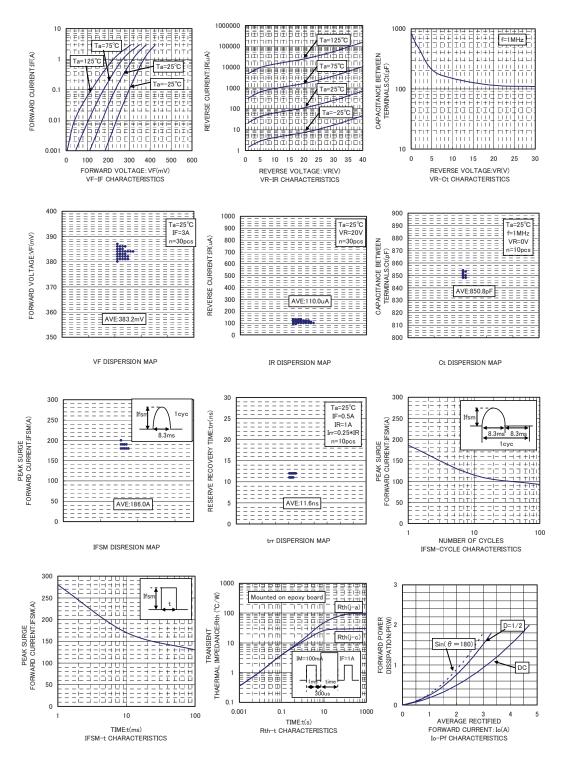
^(*1) Alumina substrate at the time of assemble, TL=90°C max.

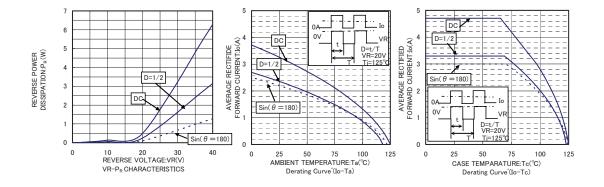
●Electrical characteristic (Ta=25°C)

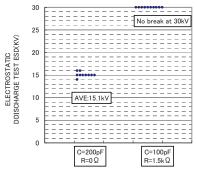
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.35	V	I _F =1A
	V_{F2}	-	-	0.45	V	I _F =3A
Reverse current	I _{R1}	-	-	1	mA	V _R =20V
	I _{R2}	-	-	150	μA	V _R =15V



•Electrical characteristic curves







ESD DISPERSION MAP

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Appendix1-Rev1.1