



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Schottky barrier diode

RB051LA-40

●Applications

General rectification

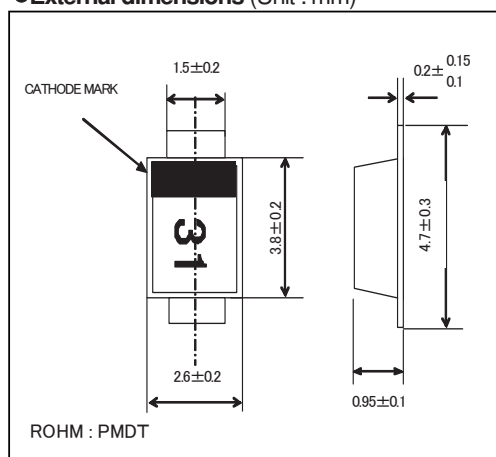
●Features

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

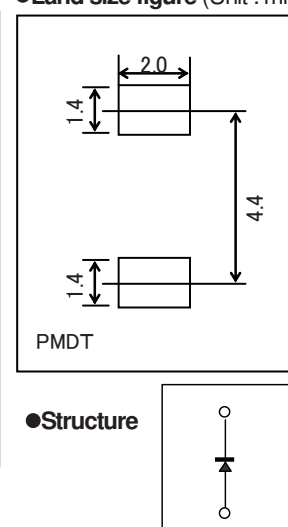
●Structure

Silicon epitaxial planar

●External dimensions (Unit : mm)

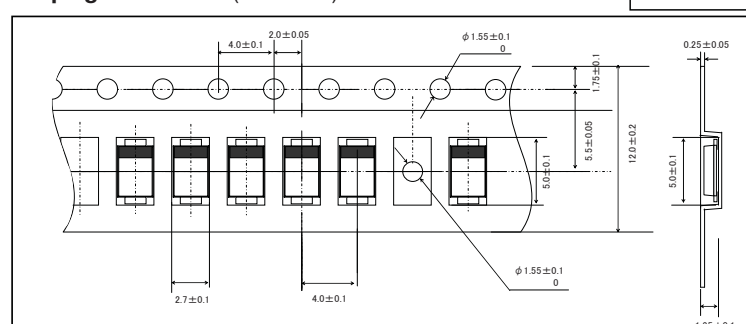


●Land size figure (Unit : mm)



●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

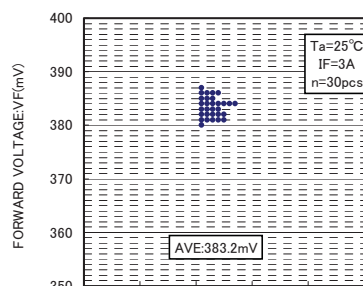
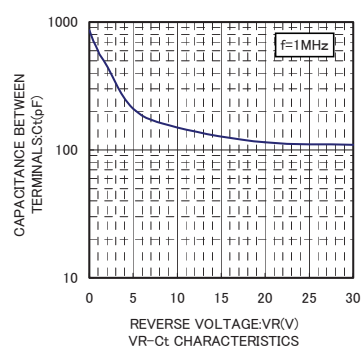
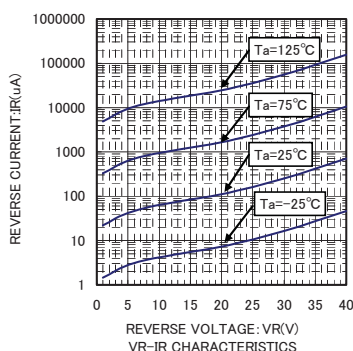
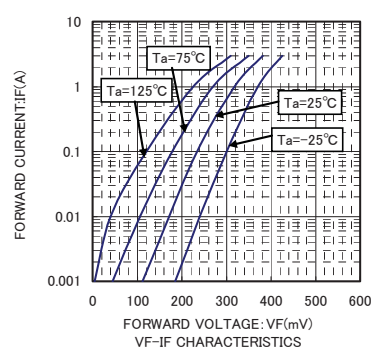
(*1) Alumina substrate at the time of assemble, $T_L=90^\circ\text{C}$ max.

●Electrical characteristic (Ta=25°C)

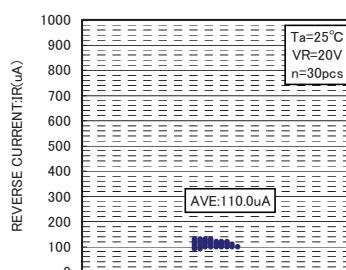
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.35	V	$I_F=1\text{A}$
	V_{F2}	-	-	0.45	V	$I_F=3\text{A}$
Reverse current	I_{R1}	-	-	1	mA	$V_R=20\text{V}$
	I_{R2}	-	-	150	μA	$V_R=15\text{V}$

Diodes

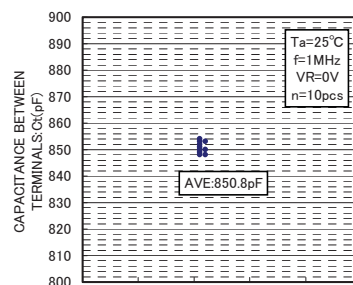
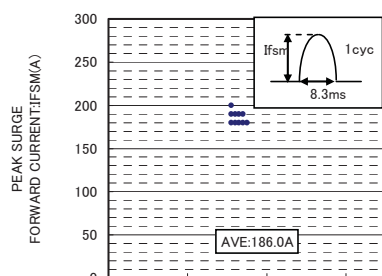
●Electrical characteristic curves



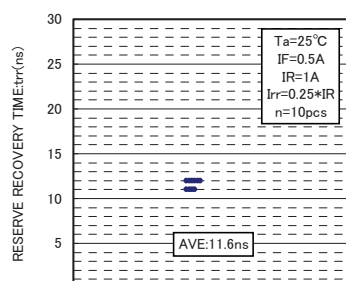
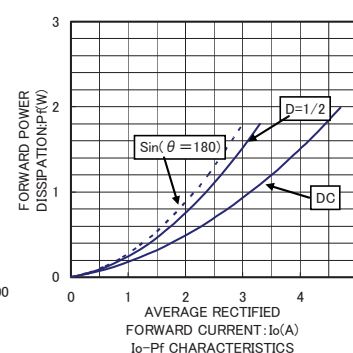
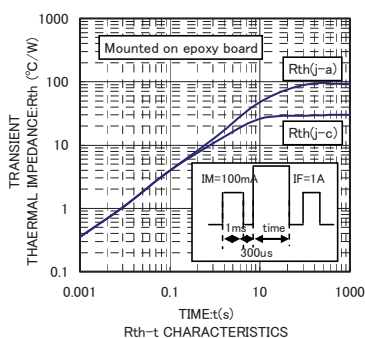
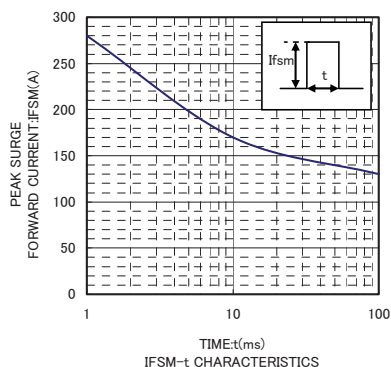
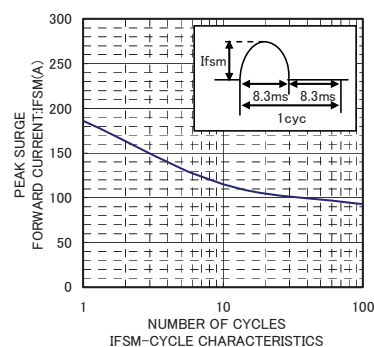
VF DISPERSION MAP



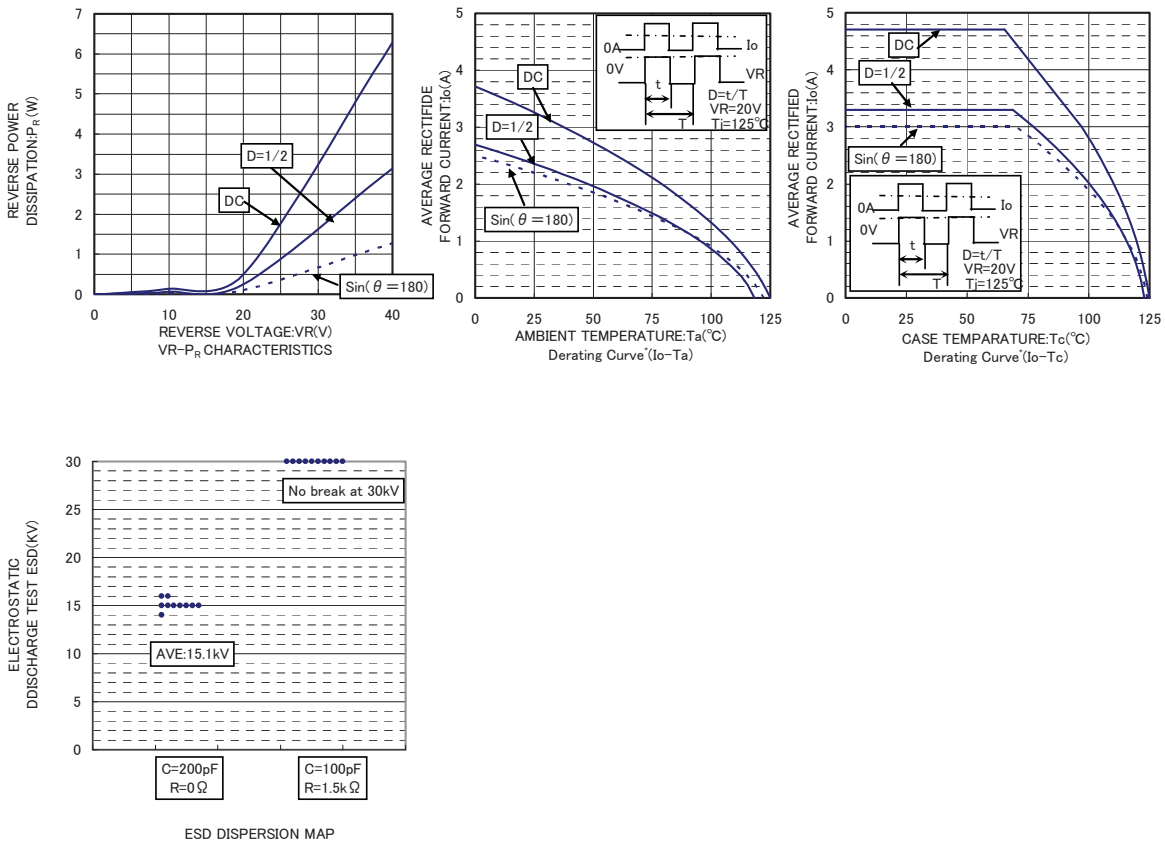
IR DISPERSION MAP

 C_t DISPERSION MAP

IFSM DISERSION MAP

 t_{rr} DISPERSION MAP

Diodes



Notes

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