



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



Rectifier diode

1SR153-400

●Applications

For fast rectifier

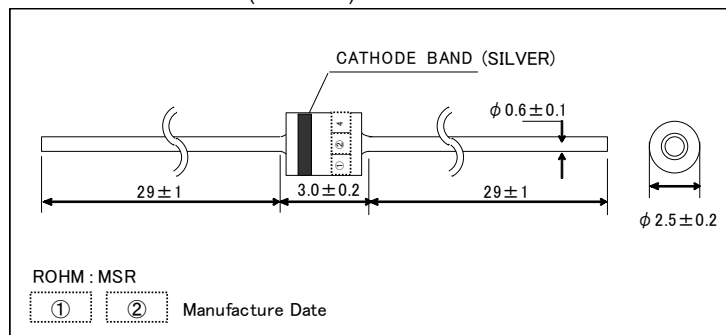
●Features

- 1) Cylindrical mold type. (MSR)
- 2) High reliability.
- 3) High switching speed.

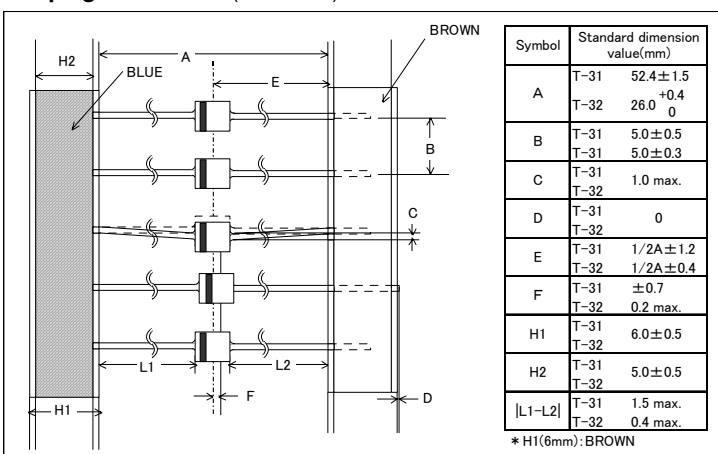
●Construction

Silicon diffused junction

●External dimensions (Unit : mm)



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Maximum peak surge reverse voltage	V_{RMS}	500	V
Surge reverse voltage	V_R	400	V
Average rectified forward current (*1)	I_o	1	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	30	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

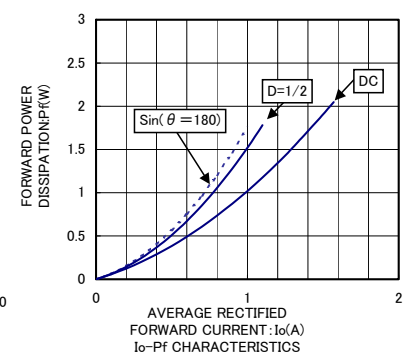
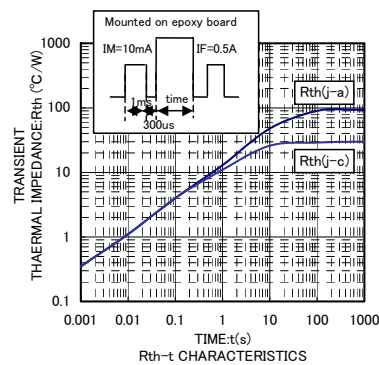
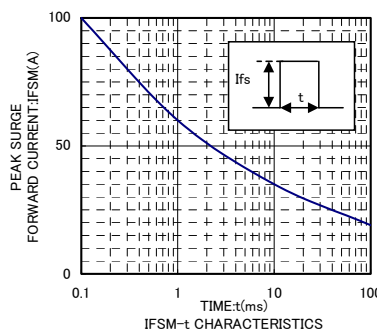
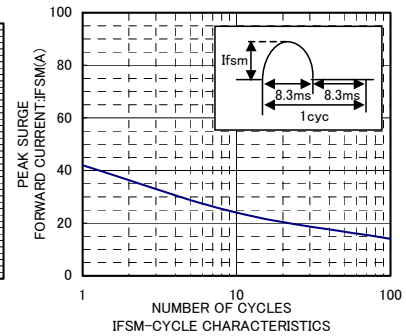
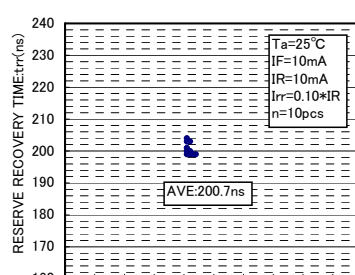
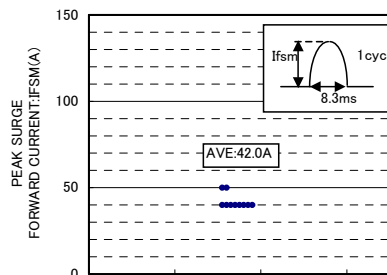
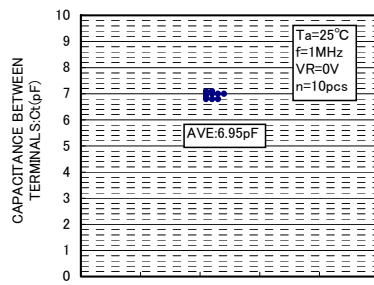
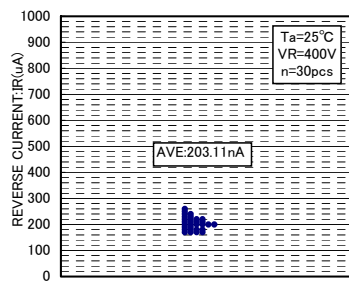
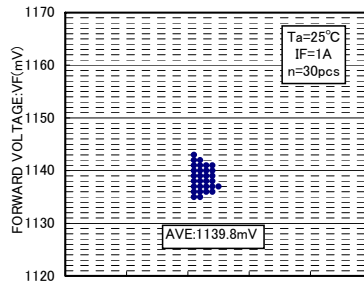
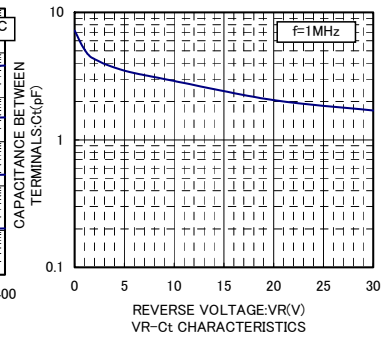
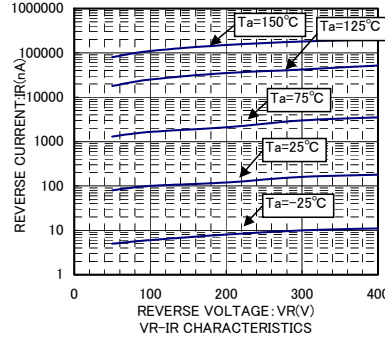
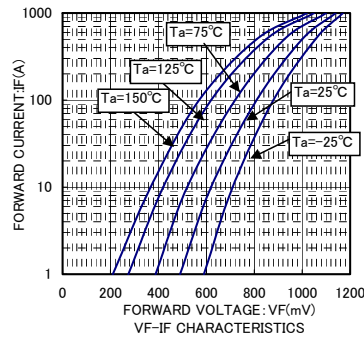
(*1) Mounting on alumina board

●Electrical characteristics (Ta=25°C)

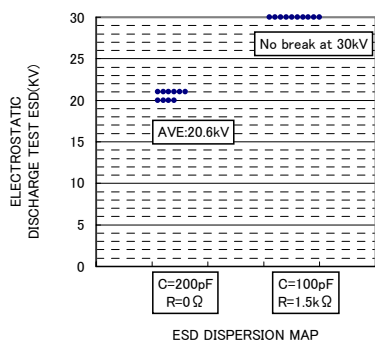
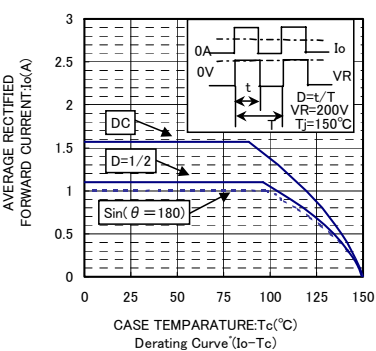
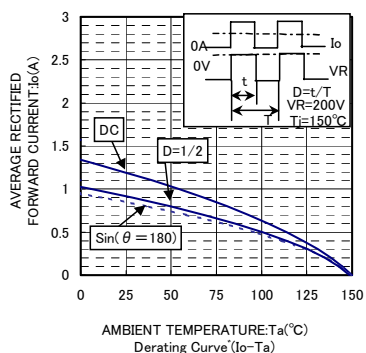
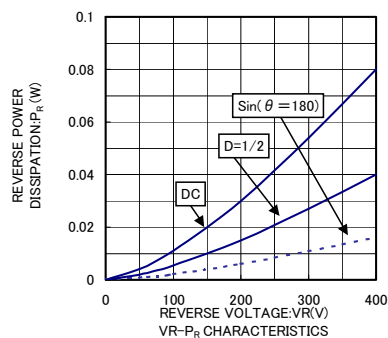
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.3	V	$I_F=0.8A$
Reverse current	I_R	-	-	10	uA	$V_R=400V$
Reverse recovery time	t_{rr}	-	-	0.4	us	$I_F=10mA, I_R=10mA, I_{rr}=1mA$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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