



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



1. Scope

The present specifications shall apply to Sanken silicon diode MPL-102S.

2. Outline

Type	Silicon Diode
Structure	Resin Molded
Applications	Pulse Rectification, etc

3. Flammability

UL94V-0 (Equivalent)

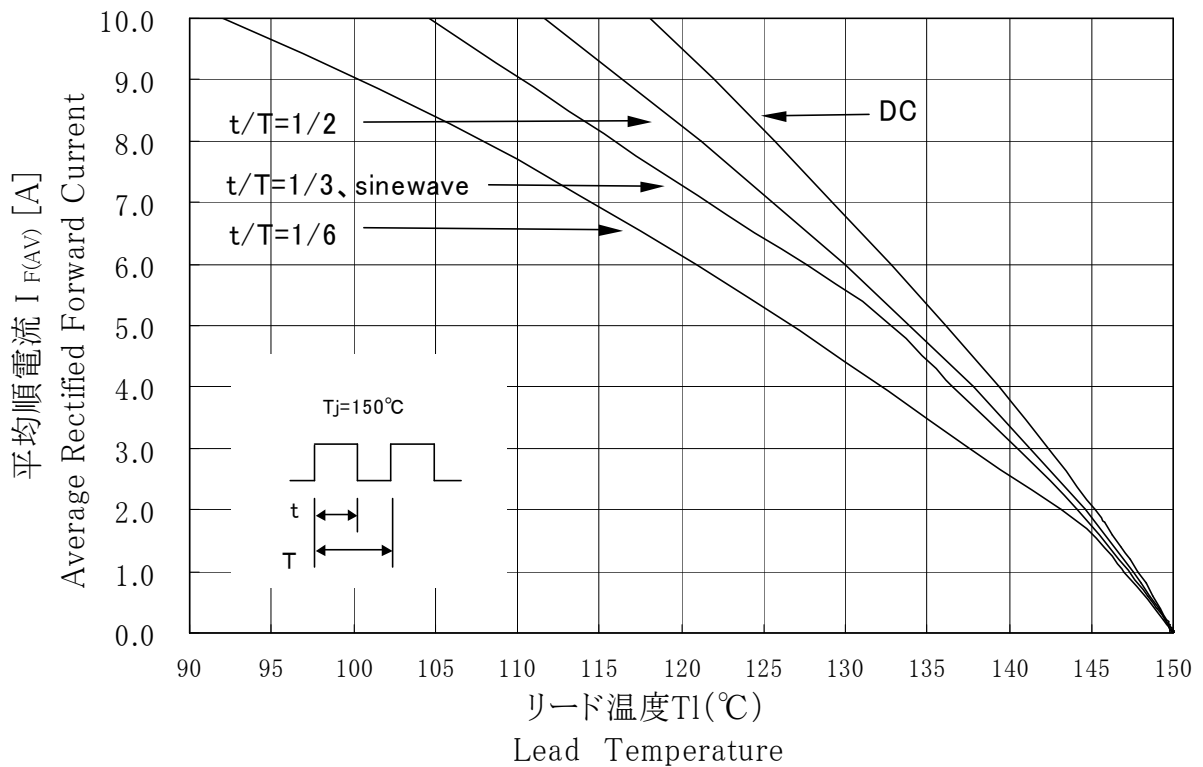
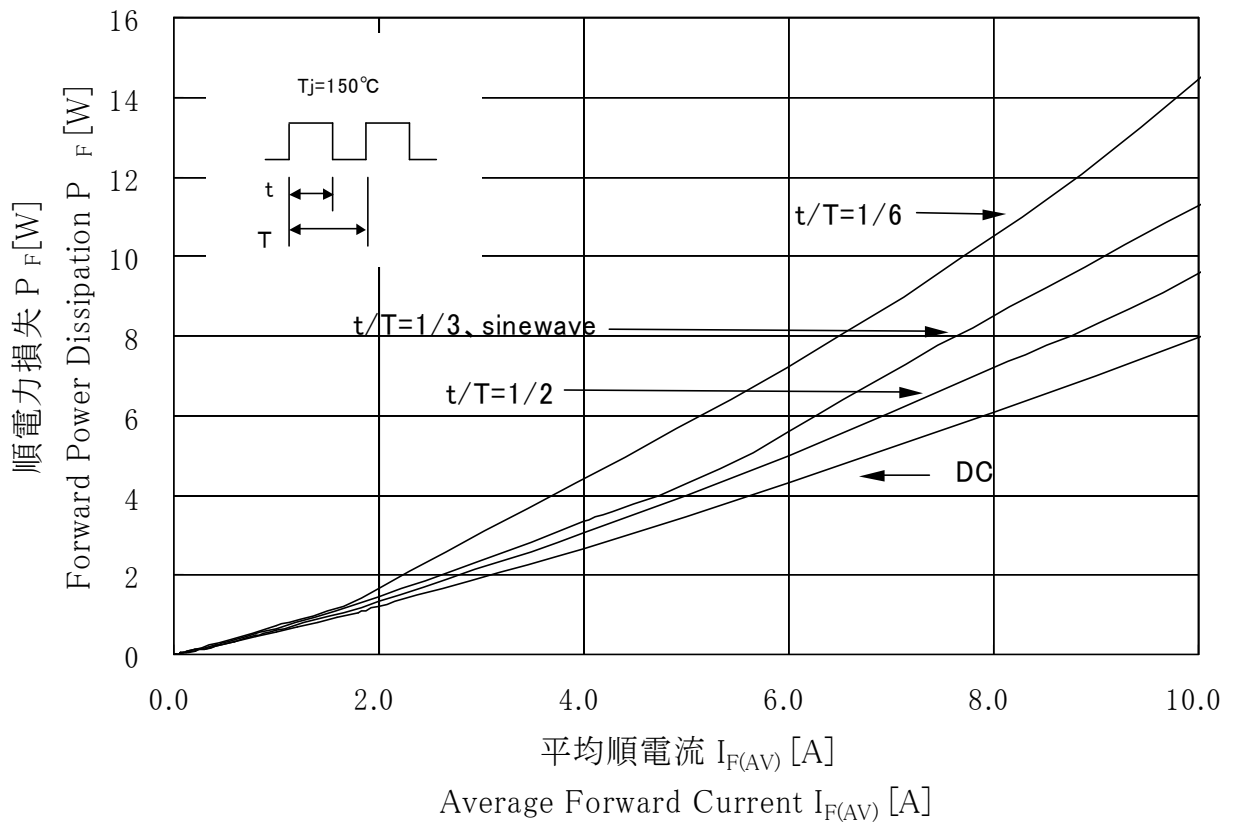
4. Absolute maximum ratings

				MPL-102S	
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	200	
2	Peak Reverse Voltage	V_{RM}	V	200	
3	Average Forward Current	$I_{F(AV)}$	A	10	Refer to Derating of 6
4	Peak Surge Forward Current	I_{FSM}	A	65	10msec. Half sine wave, one shot
5	I^2t Limiting Value	I^2t	A^2s	21	
6	Junction Temperature	T_j	$^{\circ}C$	-40~+150	
7	Storage Temperature	T_{stg}	$^{\circ}C$	-40~+150	

5. Electrical Characteristics ($T_a=25^{\circ}C$, unless otherwise specified)

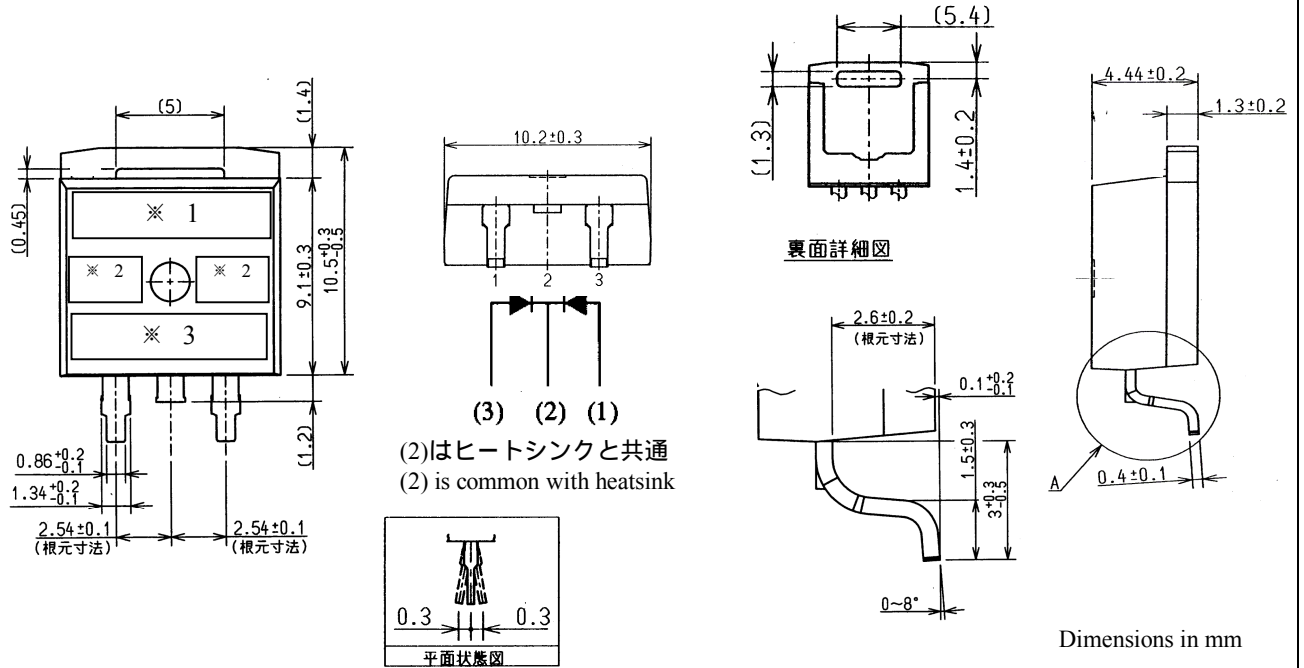
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.98 max.	$I_F=5.0A$
2	Reverse Leakage Current	I_R	μA	100 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	200 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Reverse Recovery Time	t_{rr1}	ns	40 max.	$I_F=I_{RP}=100mA,$ $T_j=25^{\circ}C$ 90% Recovery point
		t_{rr2}	ns	30 max.	$I_F=100mA, I_R=200mA, T_j=25^{\circ}C$ 75% Recovery point
5	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}C/W$	2.5 max.	Between junction and case

6. Derating



7. Package information

7-1 Package type and physical dimensions



7-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.
The color of the case will be black.

7-3 Marking

Type name	Marking		
	*1 Type name	*2 Lot number	*3 Polarity
MPL-102S	MPL-102S	1 st letter : Last digit of year 2 nd letter : Month Jan.~Sep.:1~9 O for Oct. , N for Nov. , D for Dec. 3 rd &4 th letter : Day Ex. 7926(September 26 , 2007)	