

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)

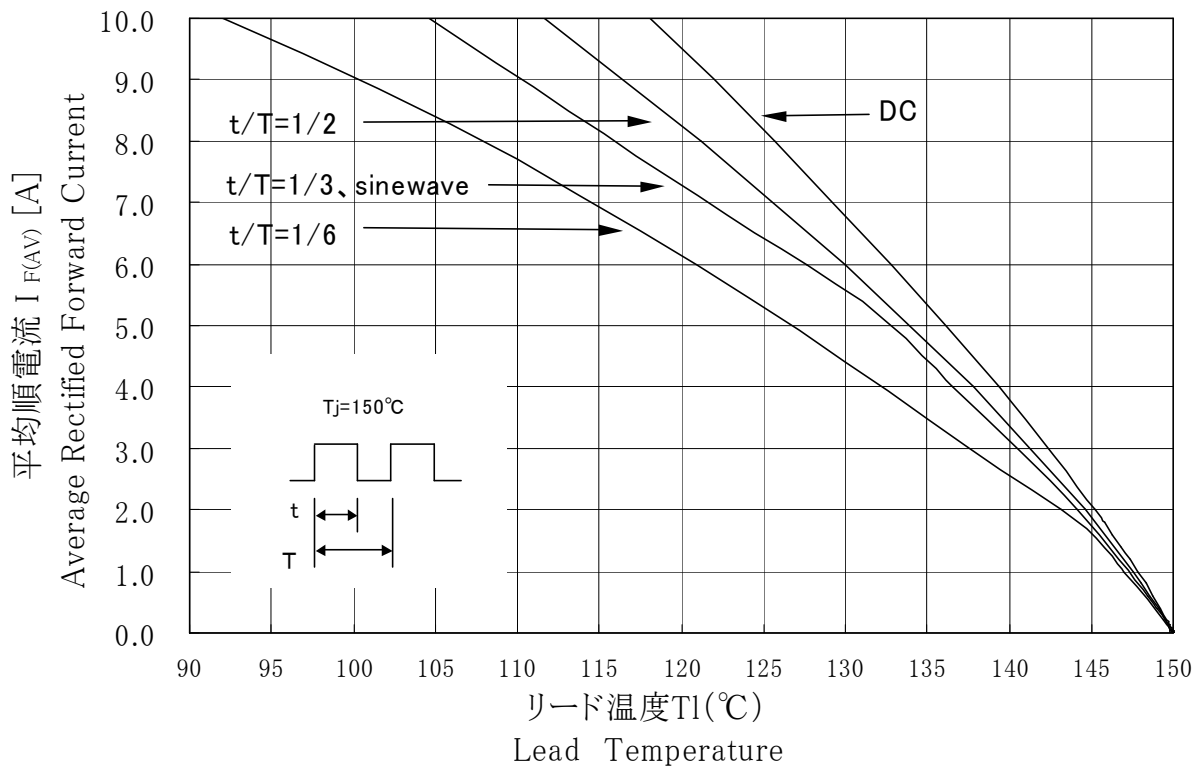
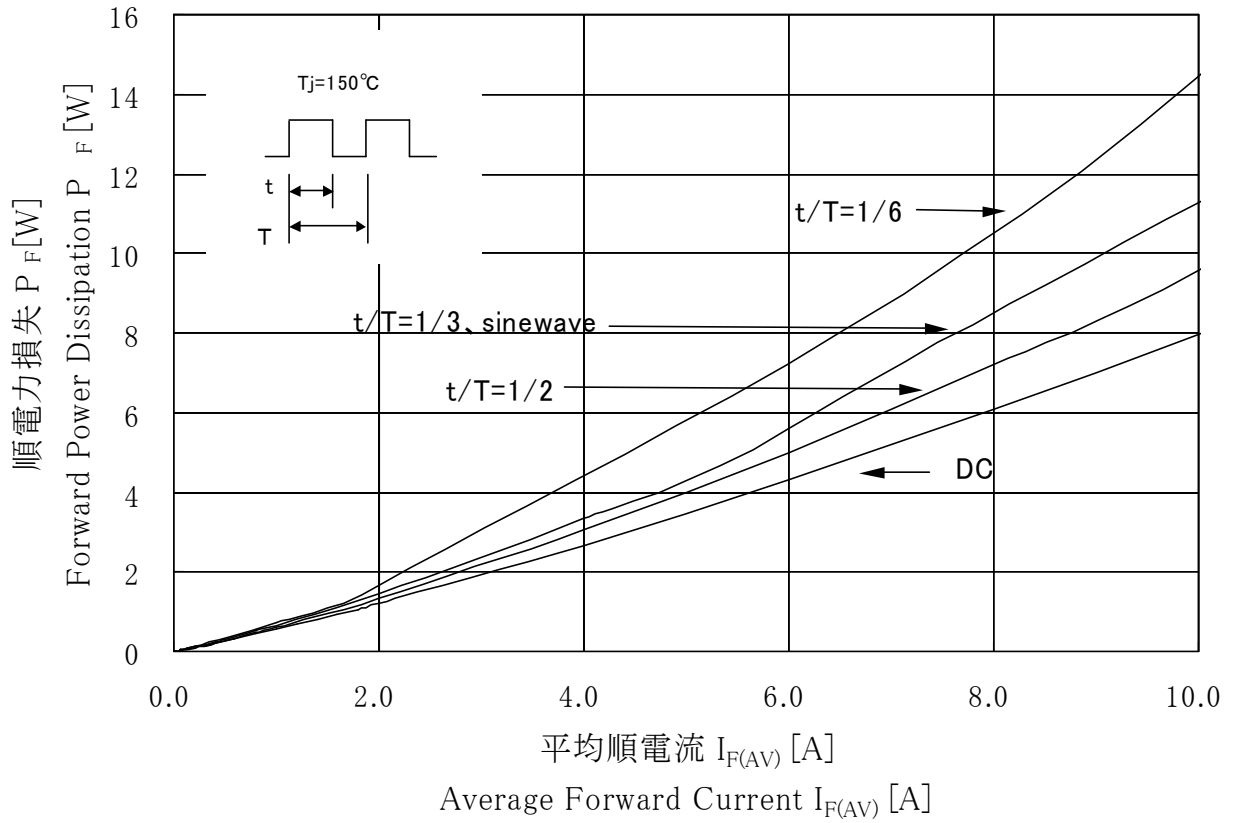
4. Absolute maximum ratings

				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)

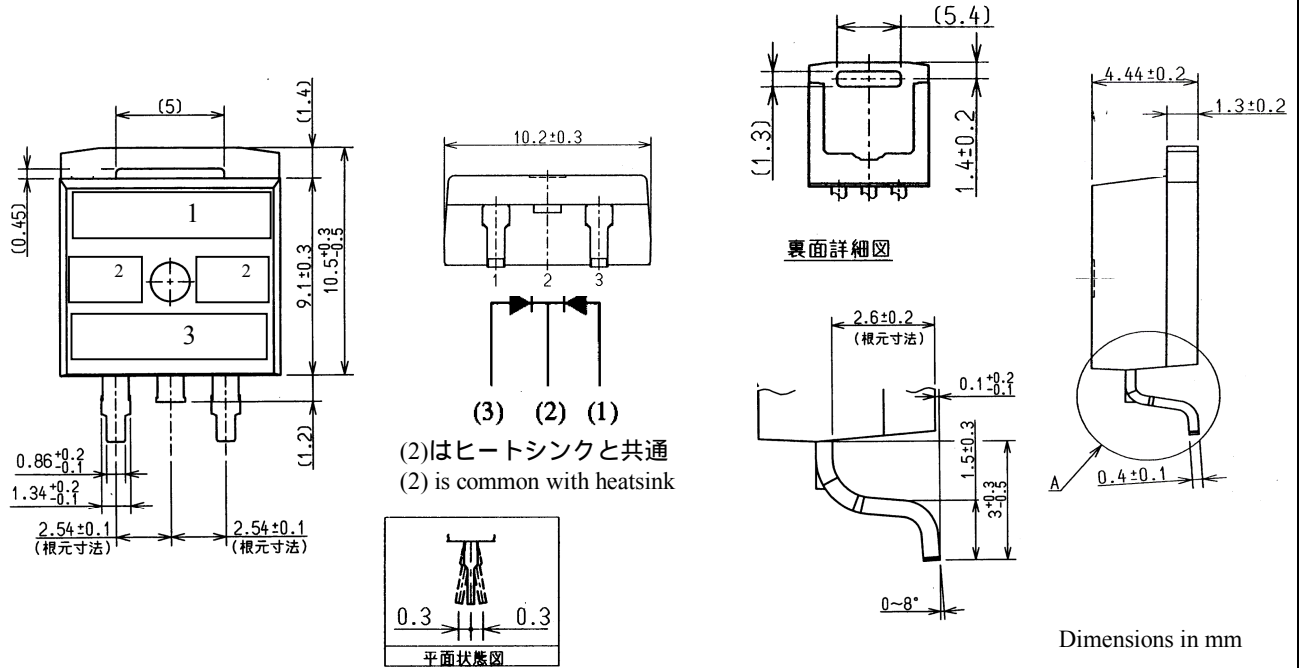
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.98 max.	$I_F=5.0A$
2	Reverse Leakage Current	I_R	μA	100 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	200 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Reverse Recovery Time	t_{rr1}	ns	40 max.	$I_F=I_{RP}=100mA,$ $T_j=25^{\circ}C$ 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)	