1. Scope

The present specifications shall apply to Sanken silicon diode, FML-13S.

2. Outline

Type	Silicon Rectifier Diode
Structure	Resin Molded Flammability : UL94V-0 (Equivalent)
Applications	High Frequency Rectification

3. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	300	
2	Peak Reverse Voltage	V_{RM}	V	300	
3	Average Forward Current	$I_{F(AV)}$	A	5	Tc=122°C Sinewave
4	Peak Surge Forward Current	I_{FSM}	A	40	10msec. Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	8	1msec≤t≤10msec
6	Junction Temperature	T_j	°C	-40~+150	
7	Storage Temperature	T_{stg}	°C	-40~+150	

No.1,2,4&5 show ratings per one chip.

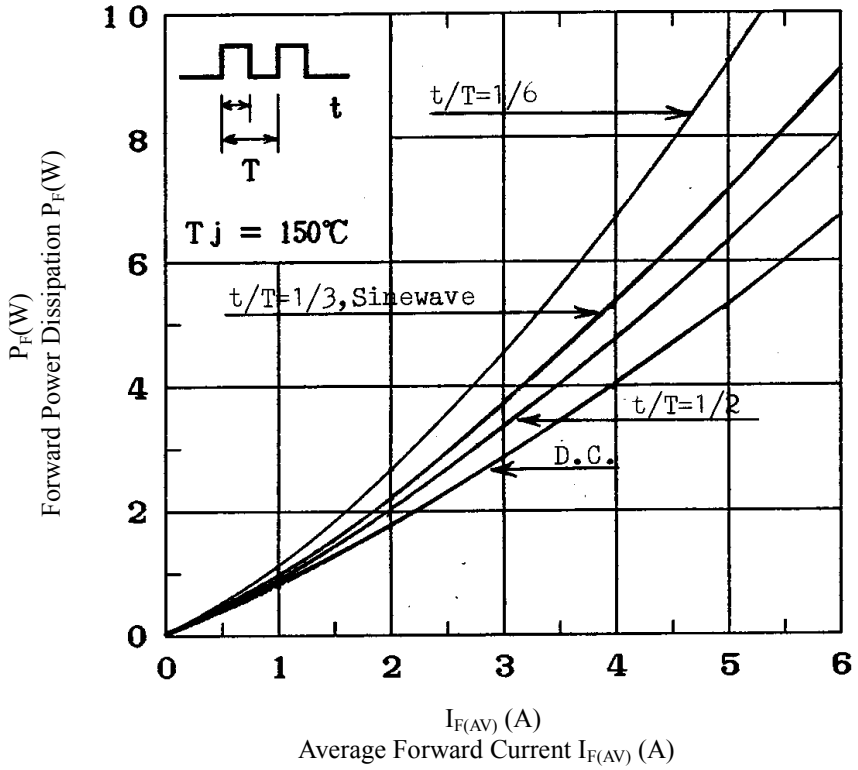
4. Electrical characteristics (Ta=25°C, unless otherwise specified)

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.3 max.	I_F=2.5A
2	Reverse Leakage Current	I_R	μA	50 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	H・I_R	μA	250 max.	$V_R=V_{RM}$, Ta=100°C
4	Reverse Recovery Time	trr1	ns	50 max.	$I_F=I_{RP}$=100mA 90% Recovery point, Ta=25°C
		trr2	ns	35 max.	I_F=100mA,I_{RP}=200mA 75% Recovery point ,Ta=25°C
5	Thermal Resistance	$R_{th(j-c)}$	°C /W	4.0 max.	Between Junction and case

No.1,2,3&4 show characteristics per one chip.

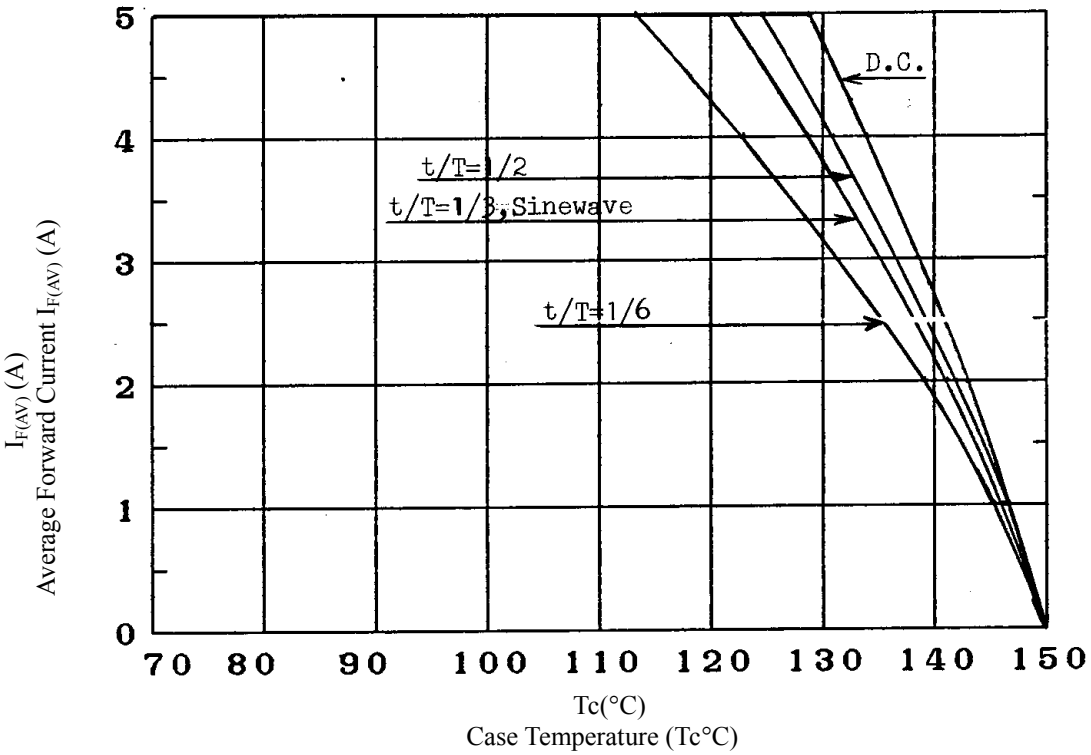
5. Characteristics

$I_{F(AV)}$ - P_F



6. Derating

Tc - $I_{F(AV)}$



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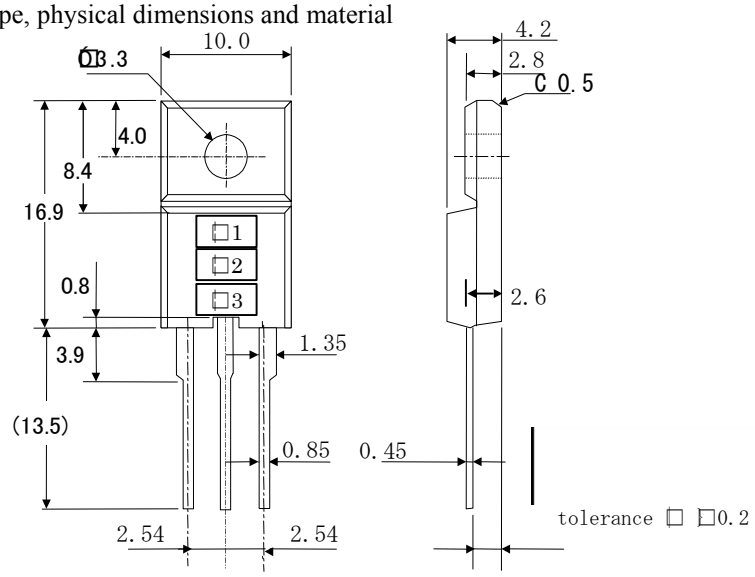
7. Package information

7-1 Package type, physical dimensions and material

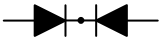


Dimensions in mm

7-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

7-3 Marking

Type Name	Marking		
	*1 Type Name	*2 Polarity	*3 Lot number
FML-13S	FML13S		1st letter: Last digit of year 2nd letter: Month From 1 to 9 for Jan. to Sep., O for Oct., N for Nov., D for Dec. 3rd & 4th letter: Day ex. 4806 (Aug. 6, 2004)

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  Email amall@ameya360.com

  QQ 800077892

  Skype ameyasales1 ameyasales2

- ### Customer Service :

  Email service@ameya360.com

- ### Partnership :

  Tel +86 (21) 64016692-8333

  Email mkt@ameya360.com