

1 Scope

The present specifications shall apply to an FMM-22S/R.

2 Outline

Type	Silicon Diode
Structure	Resin Molded
Applications	Commercial Frequency Rectification

3 Flammability

UL94V-0(Equivalent)

4 Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	250	
2	Peak Reverse Voltage	V_{RM}	V	200	
3	Average Forward Current	$I_{F(AV)}$	A	10	Refer to Derating of 7
4	Peak Surge Forward Current	I_{FSM}	A	100	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	50	$1\text{msec} \leq t \leq 10\text{msec}$
6	Junction Temperature	T_j	$^{\circ}\text{C}$	-40~+150	
7	Storage Temperature	T_{stg}	$^{\circ}\text{C}$	-40~+150	

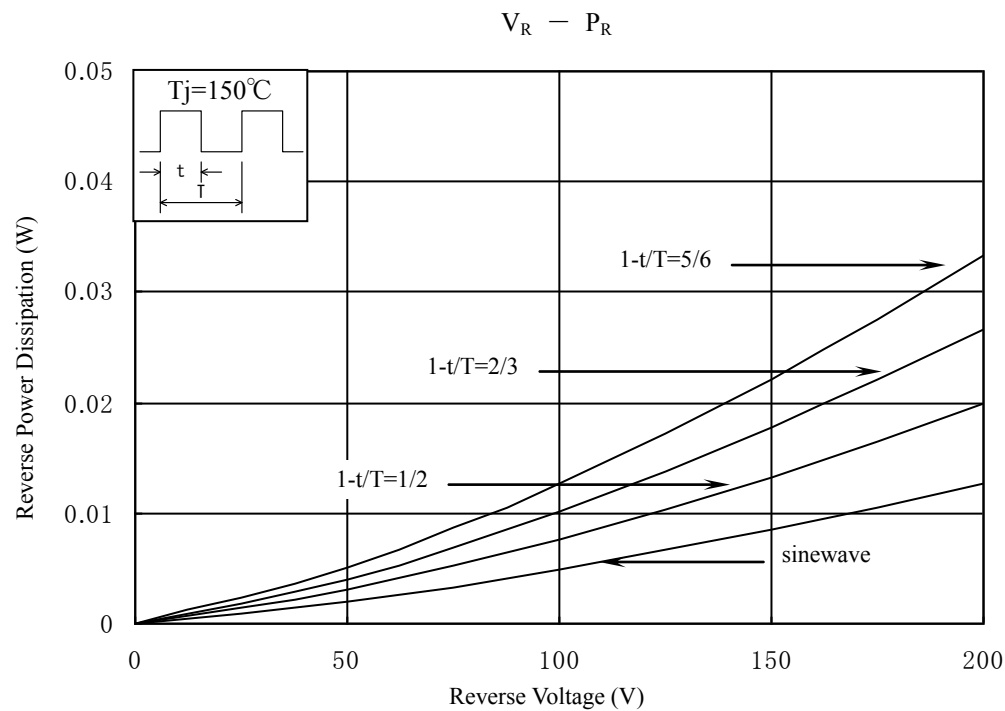
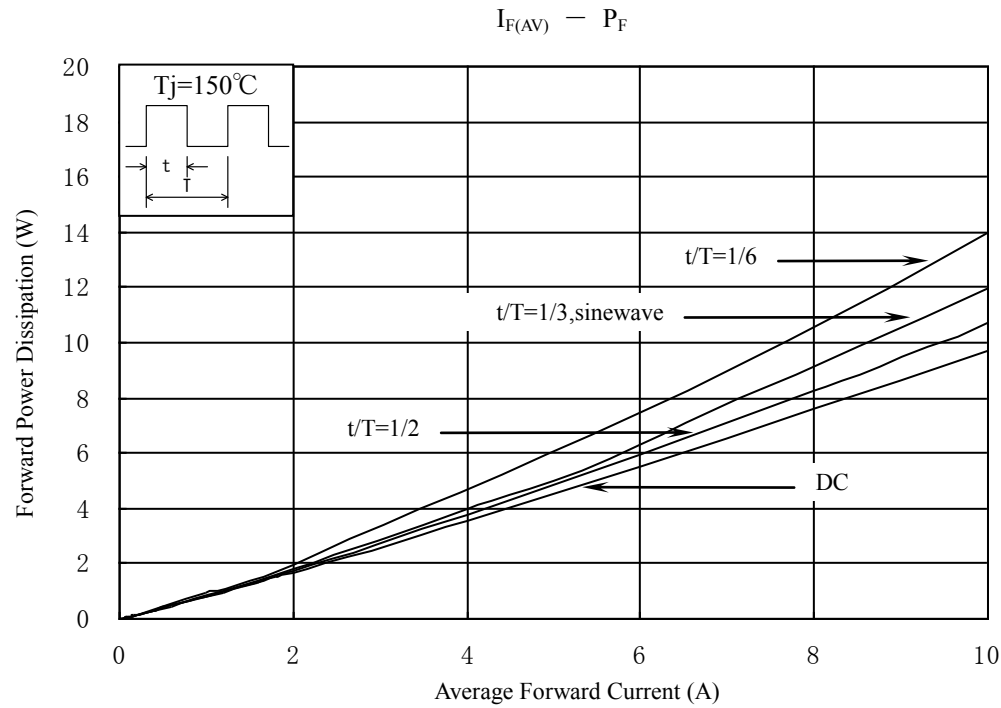
No.1,2,4&5 show ratings per one chip.

5 Electrical characteristics (Ta=25 $^{\circ}\text{C}$, unless otherwise specified)

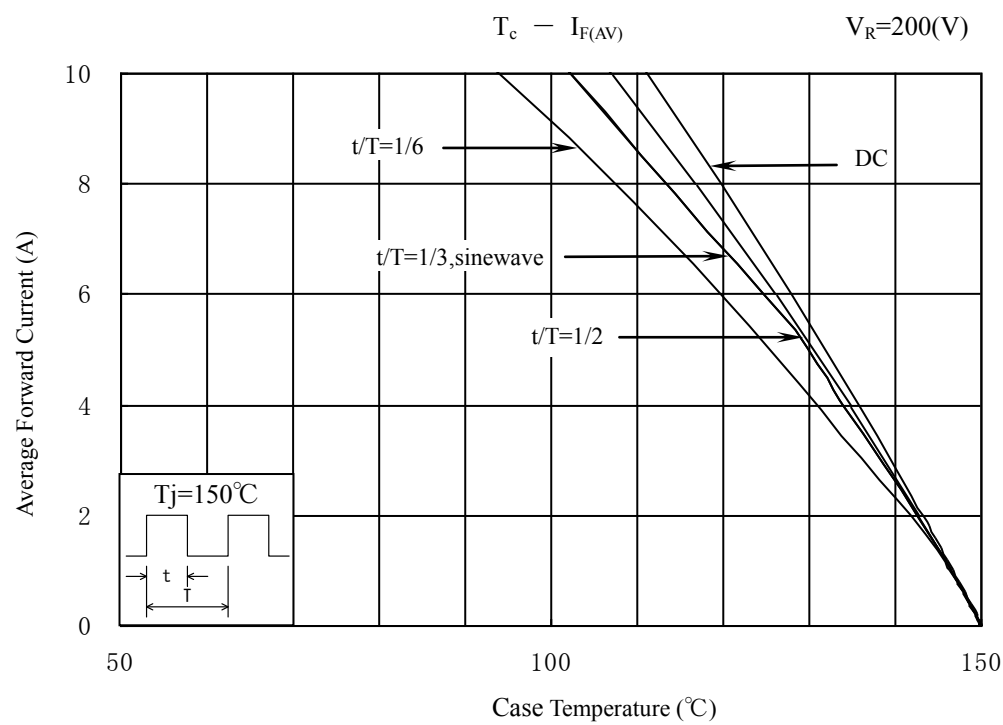
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.1 max.	$I_F=5.0\text{A}$
2	Reverse Leakage Current	I_R	μA	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	100 max.	$V_R=V_{RM}, T_j=150^{\circ}\text{C}$
4	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}\text{C/W}$	4.0 max.	Between Junction and case

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

6 Characteristics

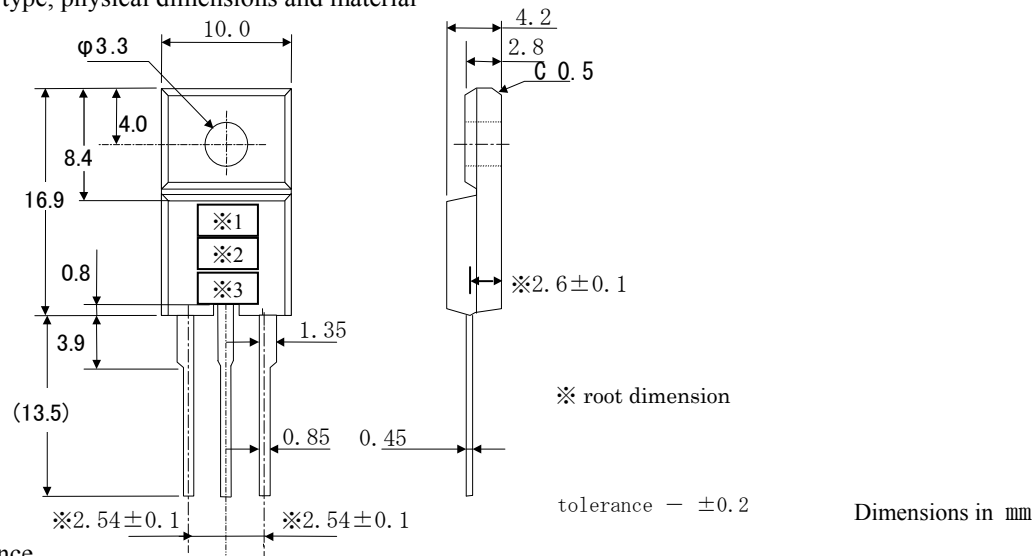


7 Derating



8 Package information

8 - 1 Package type, physical dimensions and material



8 - 2 Appearance

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

8 - 3 Marking

Type Name	Marking		
	* 1 Type Name	* 2 Polarity	* 3 Lot number
FMM-22S	FMM22S		1st letter: Last digit of year 2nd letter: Month From 1 to 9 for Jan. to Sep., 10 月→O、11 月→N、12 月→D O for Oct., N for Nov., D for Dec.
FMM-22R	FMM22R		3rd & 4th letter: Day ex. 4805 (Aug. 5, 2004)