

1. Scope

The present specifications shall apply to FMD-4204S.

2. Outline

High Frequency Rectification

Type	Silicon Diode
Structure	Resin Molded
Applications	High Frequency Rectification,etc

3. Flammability

UL94V-0(Equivalent)

4. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	400	
2	Peak Reverse Voltage	V_{RM}	V	400	
3	Average Forward Current	$I_{F(AV)}$	A	20	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	$^{\circ}C$	-40~+150	
7	Storage Temperature	T_{stg}	$^{\circ}C$	-40~+150	

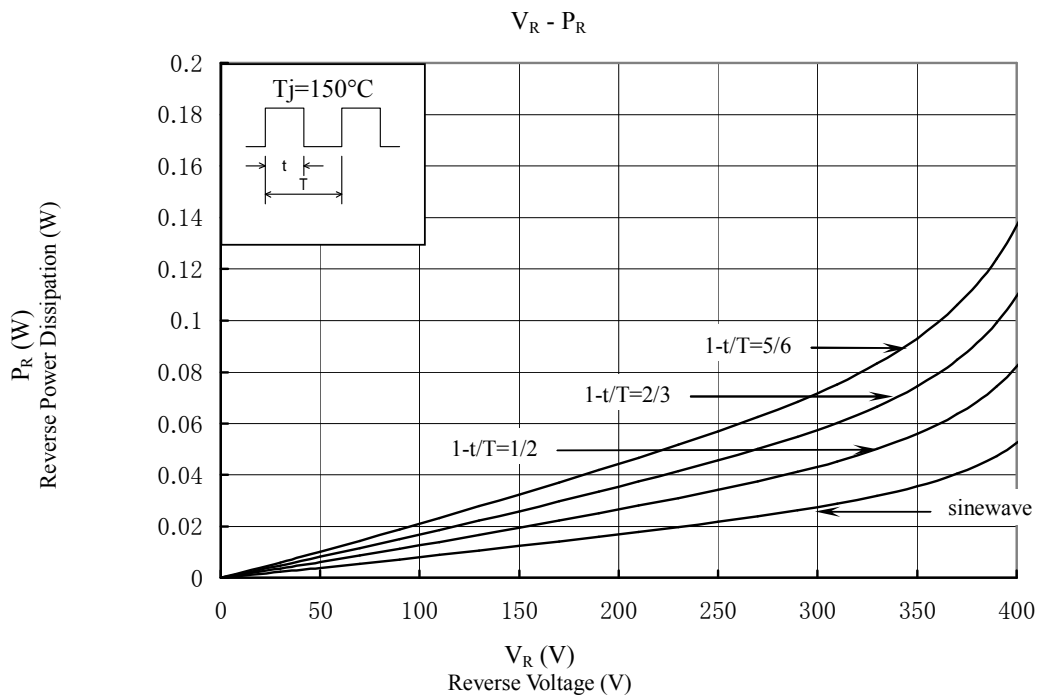
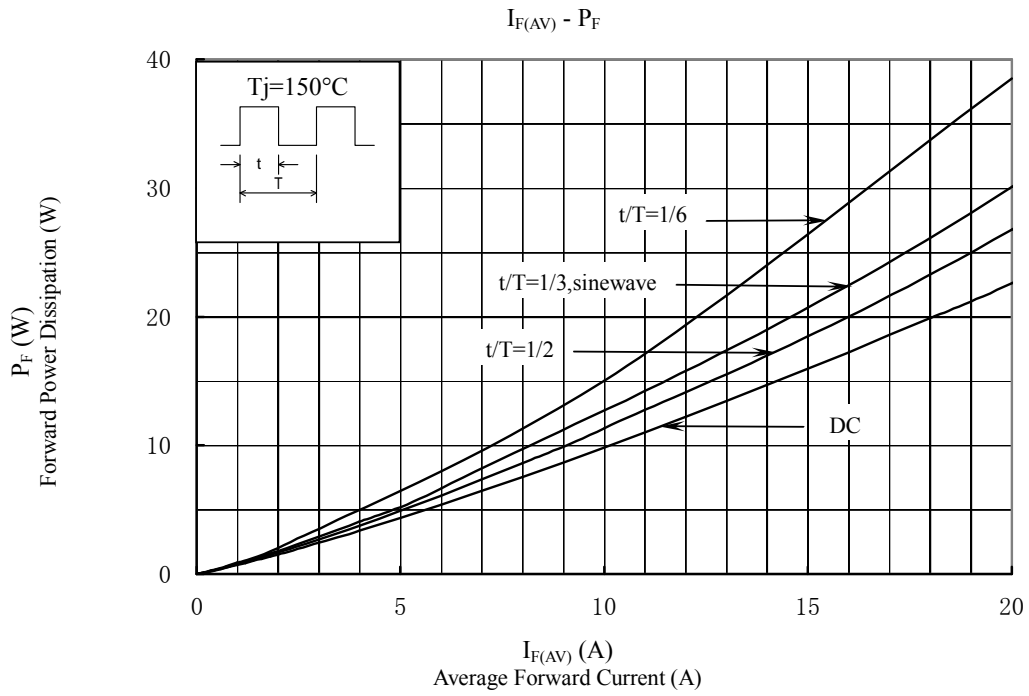
No.1,2,4&5 show characteristics per one chip.

5. Electrical characteristics

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1 . 4 max.	$I_F=10A$
2	Reverse Leakage Current	I_R	μA	2 0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	2 0 0 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Reverse Recovery Time	trr1	ns	5 0 max.	$I_F=I_{RP}=500mA$ 90% Recovery point, $T_j=25^{\circ}C$
		trr2	ns	3 0 max.	$I_F=500mA, I_{RP}=1.0A$ 75% Recovery point, $T_j=25^{\circ}C$
5	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}C/W$	2 . 0 max.	Between Junction and case

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

6. Characteristics



7. Derating

