

1. Scope

The present specifications shall apply to an FMW-4306.

2. Outline

Type	Silicon Schottky Barrier Diode
Structure	Resin Molded
Applications	High 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	60	
2	Peak Reverse Voltage	V_{RM}	V	60	
3	Average Forward Current	$I_{F(AV)}$	A	30	Refer to Derating of 7
4	Peak Surge Forward Current	I_{FSM}	A	150	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	112.5	$1msec \leq t \leq 10msec$
6	Junction Temperature	T_j	°C	-40 ~ +150	
7	Storage Temperature	T_{stg}	°C	-40 ~ +150	

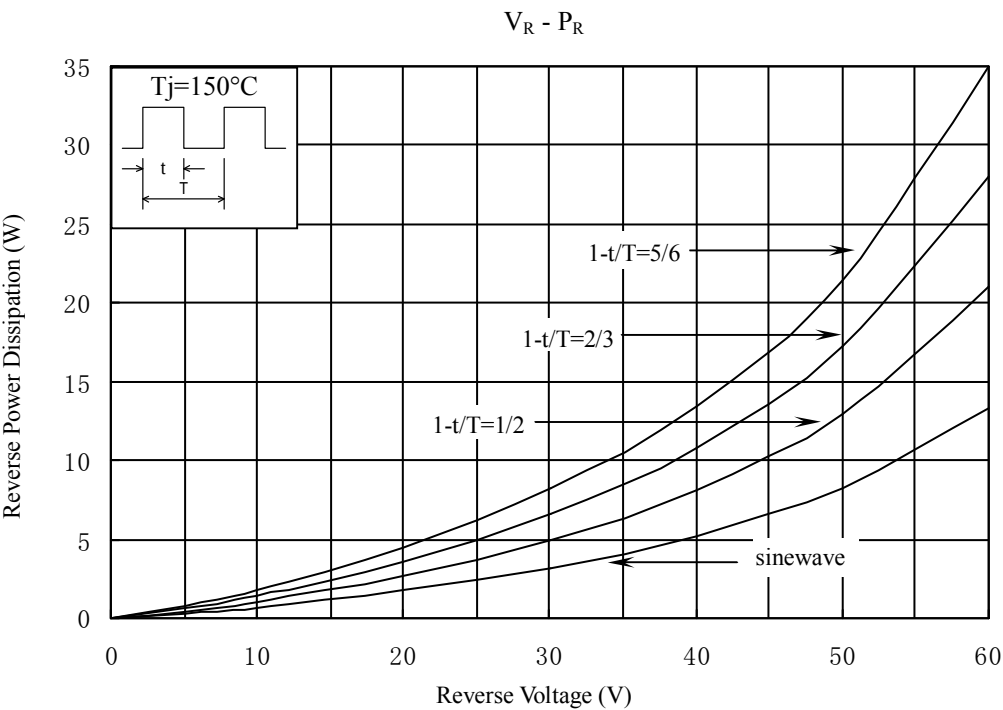
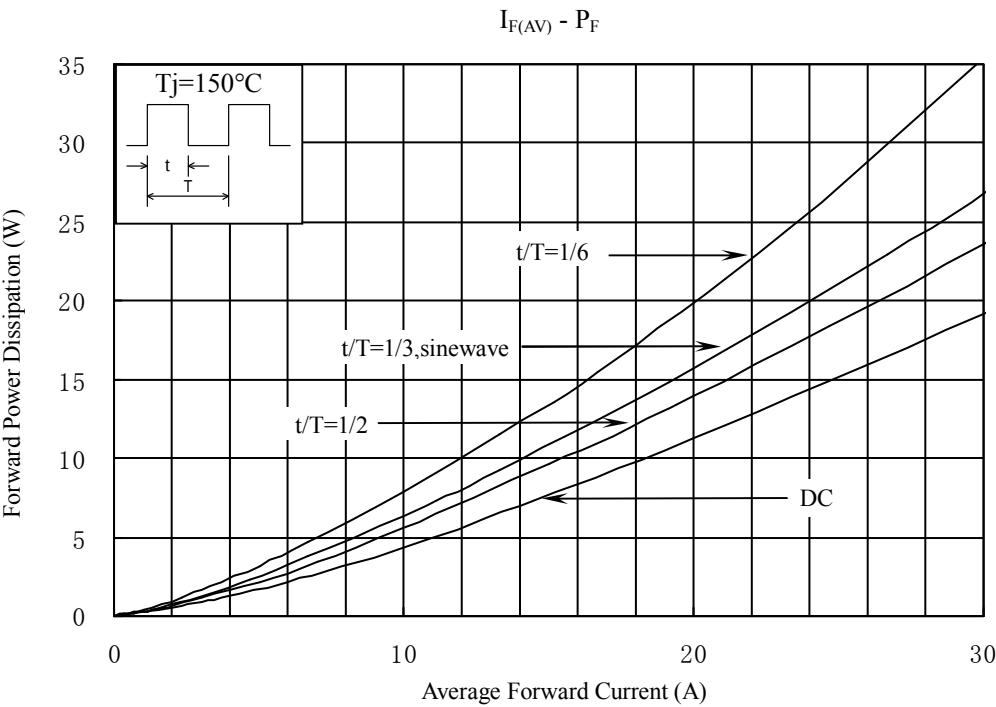
No.1,2,4&5 show ratings per one chip.

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

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.70 max.	$I_F=15A$
2	Reverse Leakage Current	I_R	mA	3.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	350 max.	$V_R=V_{RM}, T_j=150^\circ C$
4	Thermal Resistance	$R_{th(j-c)}$	°C/W	2.0 max.	Between Junction and case

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

6. Characteristics



7. Derating

