

## 1. Scope

The present specifications shall apply to FMXA-2203S.

## 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      | 300      |                            |
| 2   | Peak Reverse Voltage           | $V_{RM}$    | V      | 300      |                            |
| 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       | $1msec \leq t \leq 10msec$ |
| 6   | Junction Temperature           | $T_j$       | °C     | -40~+150 |                            |
| 7   | Storage Temperature            | $T_{stg}$   | °C     | -40~+150 |                            |

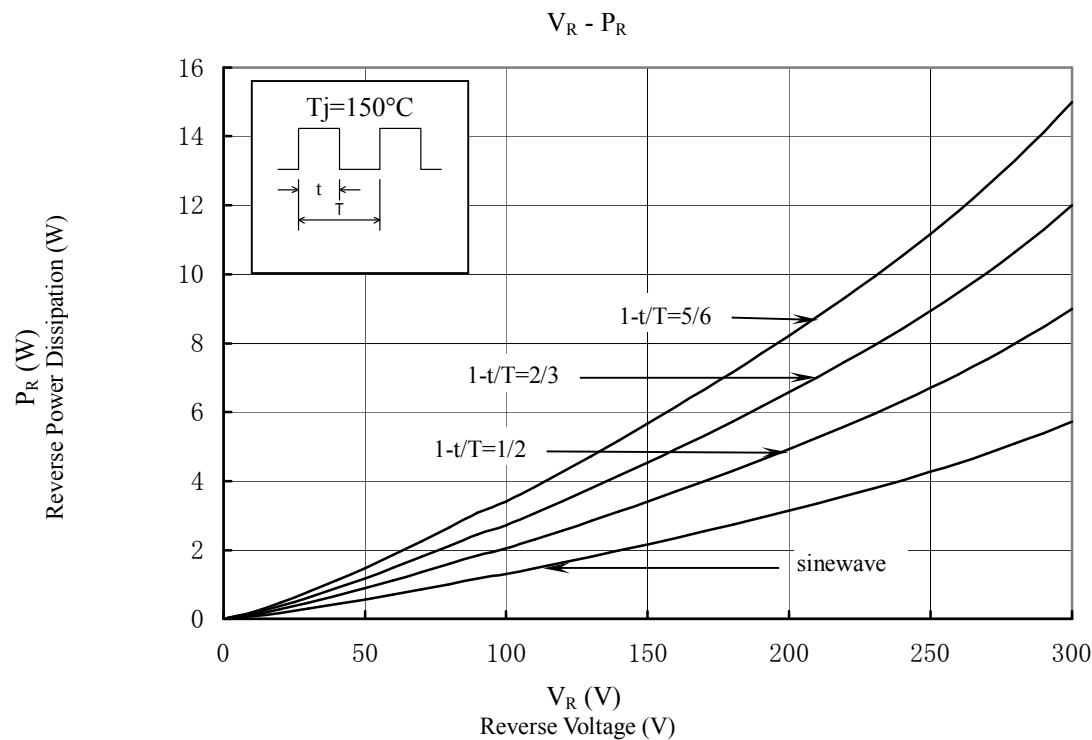
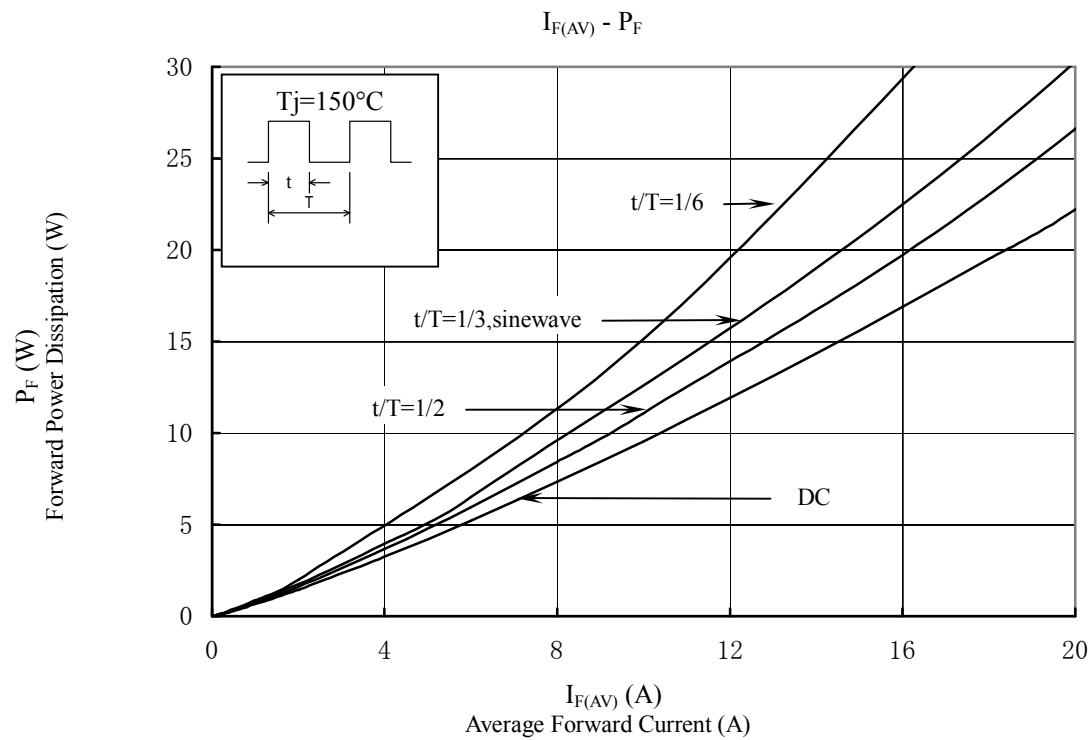
No.1,2,4&5 show ratings per one chip.

## 5. Electrical characteristics

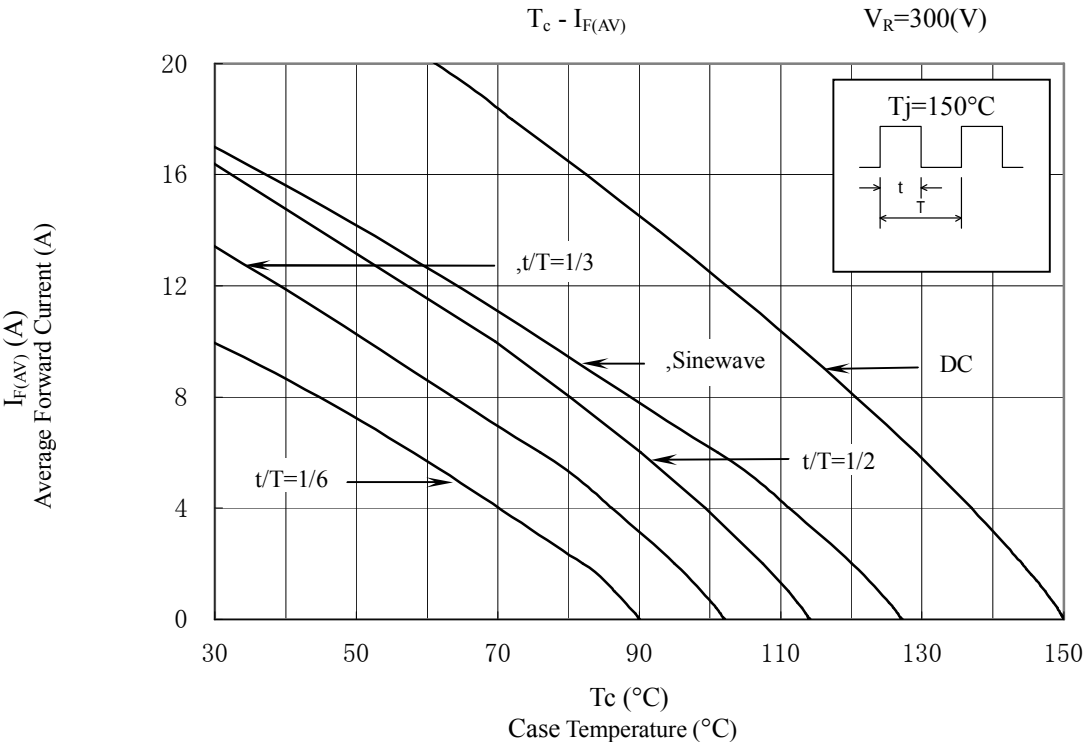
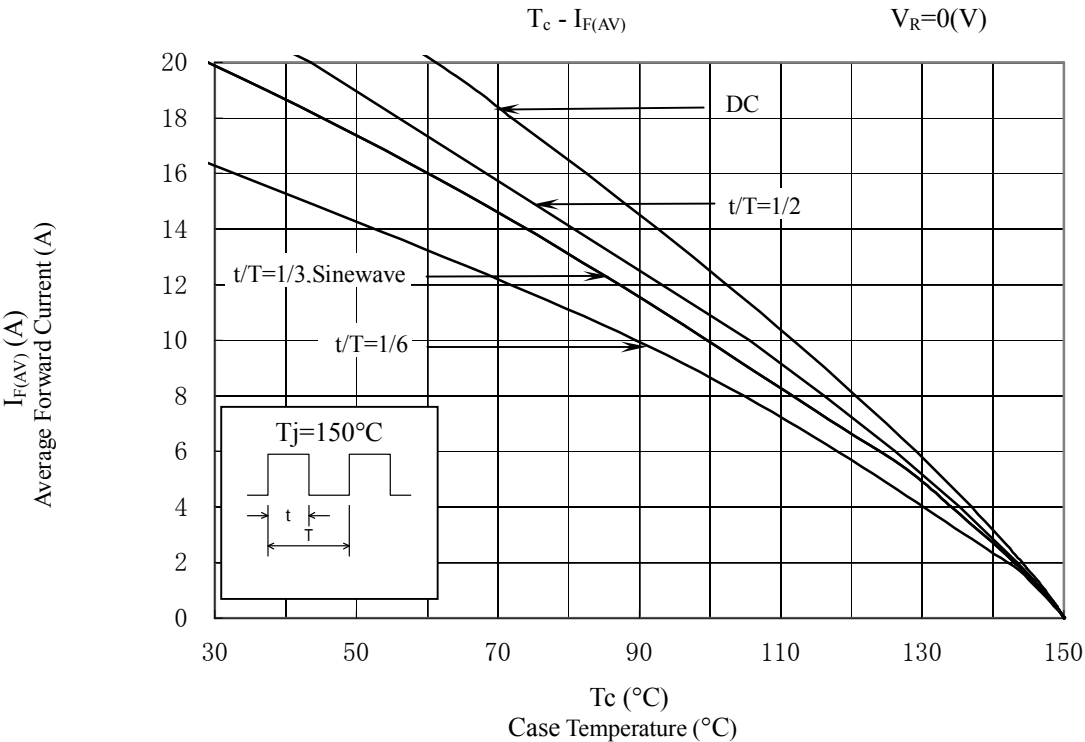
| No. | Item                                           | Symbol        | Unit    | Value     | Conditions                                                 |
|-----|------------------------------------------------|---------------|---------|-----------|------------------------------------------------------------|
| 1   | Forward Voltage Drop                           | $V_F$         | V       | 1.30 max. | $I_F=10A$                                                  |
| 2   | Reverse Leakage Current                        | $I_R$         | $\mu A$ | 100 max.  | $V_R=V_{RM}$                                               |
| 3   | Reverse Leakage Current Under High Temperature | $H \cdot I_R$ | mA      | 30 max.   | $V_R=V_{RM}$ , $T_j=150^\circ C$                           |
| 4   | Reverse Recovery Time                          | $trr1$        | ns      | 25 max.   | $I_F=I_{RP}=500mA$<br>90% Recovery point, $T_j=25^\circ C$ |
| 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.

6. Characteristics

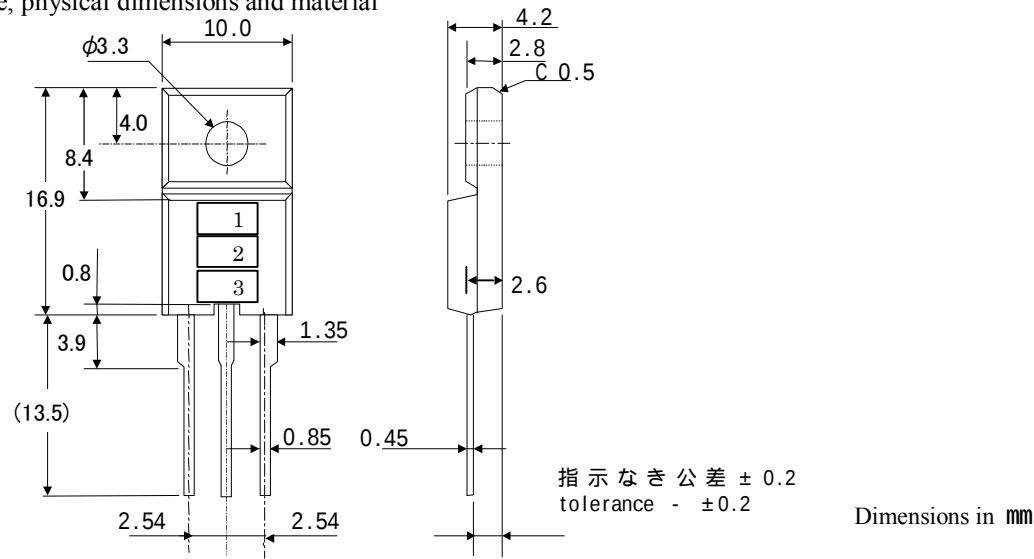


7. Derating



8. Package information

8-1Package type, physical dimensions and material



8-2Appearance

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

8-3Marking

| Type Name  | Marking         |                |                                                                                                                                                                                 |
|------------|-----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | *1<br>Type Name | *2<br>Polarity | *3<br>Lot number                                                                                                                                                                |
| FMXA-2203S | XA2203          |                | 1st letter: Last digit of year<br>2nd letter: Month From 1 to 9 for Jan. to Sep.,<br>O for Oct., N for Nov., D for Dec.<br>3rd & 4th letter: Day<br>ex. 3N07 (November 7, 2003) |