

**M2FM3****30V 6A****特長**

- 小型SMD
- 低  $V_F=0.46V$
- 低  $I_R=0.2mA$

**Feature**

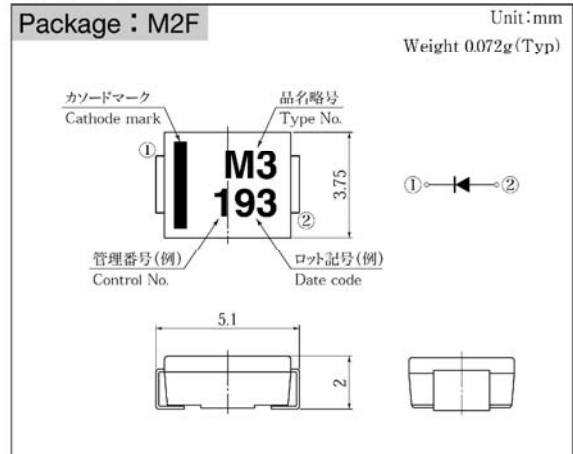
- Small SMD
- Low  $V_F=0.46V$
- Low  $I_R=0.2mA$

**用途**

- バッテリー逆接防止
- DC/DCコンバータ
- 携帯電話、パソコン

**Main Use**

- Reverse connect protection for DC power source
- DC/DC Converter
- Mobile phone, PC

**■外観図 OUTLINE**

外形図については新電元Webサイト又は〈半導体製品一覧表〉をご参照下さい。捺印表示については捺印仕様をご確認ください。

For details of the outline dimensions, refer to our web site or Semiconductor Short Form Catalog. As for the marking, refer to the specification "Marking, Terminal Connection".

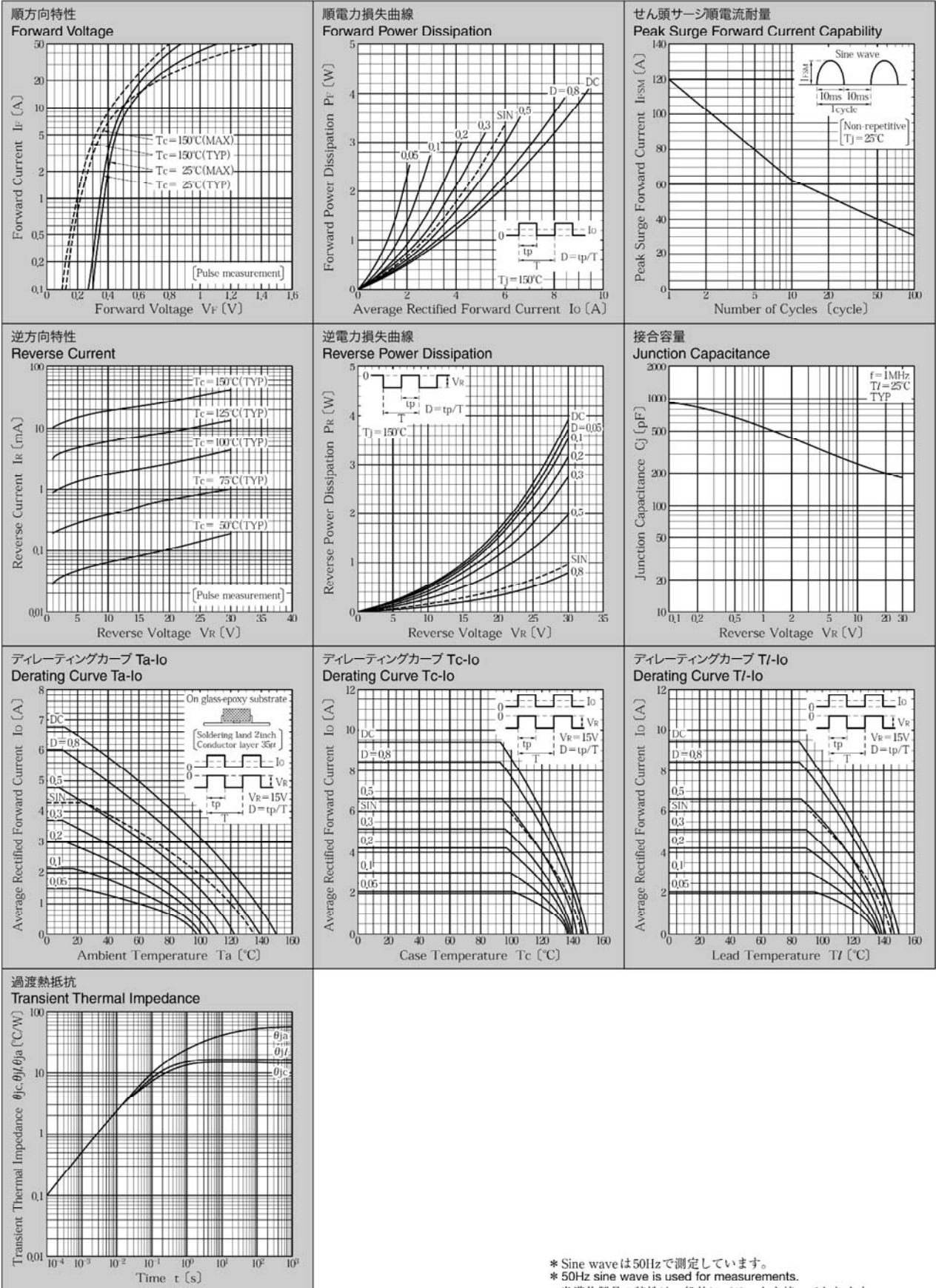
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_C = 25^\circ C$ )**

| 項目<br>Item                                | 記号<br>Symbol | 条件<br>Conditions  | 品名<br>Type No.  | M2FM3   | 単位<br>Unit |
|---|--------------|---|---|---------|------------|
| 保存温度<br>Storage Temperature               | $T_{stg}$    |   |   | -55~150 | $^\circ C$ |
| 接合部温度<br>Operation Junction Temperature   | $T_j$        |   |   | 150     | $^\circ C$ |
| せん頭逆電圧<br>Maximum Reverse Voltage         | $V_{RM}$     |   |   | 30      | V          |
| 出力電流<br>Average Rectified Forward Current | $I_O$        | 50Hz 正弦波, 抵抗負荷<br>50Hz sine wave, Resistance load   | $T_a = 25^\circ C$ プリント基板実装<br>On glass-epoxy substrate | 4.3     | A          |
|   |              |   | $T_c = 99^\circ C$                                      | 6.0     |            |
| せん頭サージ順電流<br>Peak Surge Forward Current   | $I_{FSM}$    | 50Hz 正弦波, 非繰り返し1サイクルせん頭値, $T_j = 25^\circ C$<br>50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j = 25^\circ C$ |   | 120     | A          |

**●電氣的・熱的特性 Electrical Characteristics (指定のない場合  $T_C = 25^\circ C$ )**

|                              |               |  |          |              |
|------------------------------|---------------|--|----------|--------------|
| 順電圧<br>Forward Voltage       | $V_F$         | $I_F = 2.0A$ , パルス測定<br>Pulse measurement                          | MAX 0.40 | V            |
|                              |               | $I_F = 6.0A$ , パルス測定<br>Pulse measurement                          | MAX 0.46 |              |
| 逆電流<br>Reverse Current       | $I_R$         | $V_R = V_{RM}$ , パルス測定<br>Pulse measurement                        | MAX 0.2  | mA           |
| 接合容量<br>Junction Capacitance | $C_j$         | $f = 1MHz, V_R = 10V$  | TYP 240  | pF           |
| 熱抵抗<br>Thermal Resistance    | $\theta_{jl}$ | 接合部・リード間<br>Junction to lead                                       | MAX 16   | $^\circ C/W$ |
|                              | $\theta_{jc}$ | 接合部・ケース間<br>Junction to case                                       | MAX 14   |              |
|                              | $\theta_{ja}$ | 接合部・周囲間, プリント基板実装<br>Junction to ambient, On glass-epoxy substrate | MAX 55   |              |

■特性図 CHARACTERISTIC DIAGRAMS



\* Sine waveは50Hzで測定しています。  
 \* 50Hz sine wave is used for measurements.  
 \* 半導体製品の特性は一般的にバラツキを持っています。  
 Typical is a statistical average of the device's ability.  
 \* Semiconductor products generally have characteristic variation.  
 Typical is a statistical average of the device's ability.