

**D3S6M****60V 3A****特長**

- $T_j=150^\circ\text{C}$
- PRRSM アバランシェ保証

**Feature**

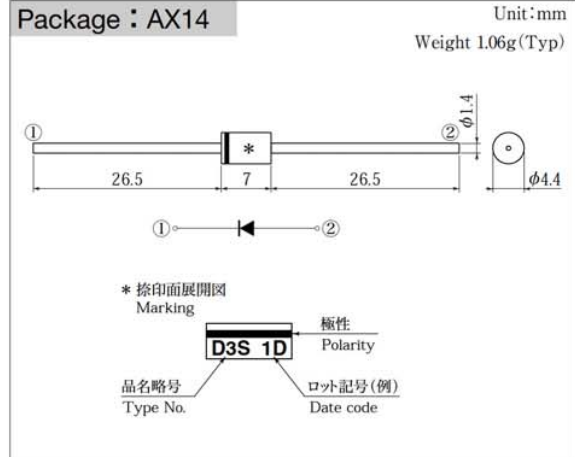
- $T_j=150^\circ\text{C}$
- PRRSM Rating

**用途**

- スイッチング電源
- DC/DCコンバータ
- 家電、ゲーム、OA機器
- 通信、ポータブル機器

**Main Use**

- Switching Regulator
- DC/DC Converter
- Home Appliance, Game, Office Automation
- Communication, Portable set

**■外観図 OUTLINE**

外形図については新電元Webサイトをご参照下さい。捺印表示については捺印仕様をご確認下さい。  
For details of the outline dimensions, refer to our web site. As for the marking, refer to the specification "Marking, Terminal Connection".

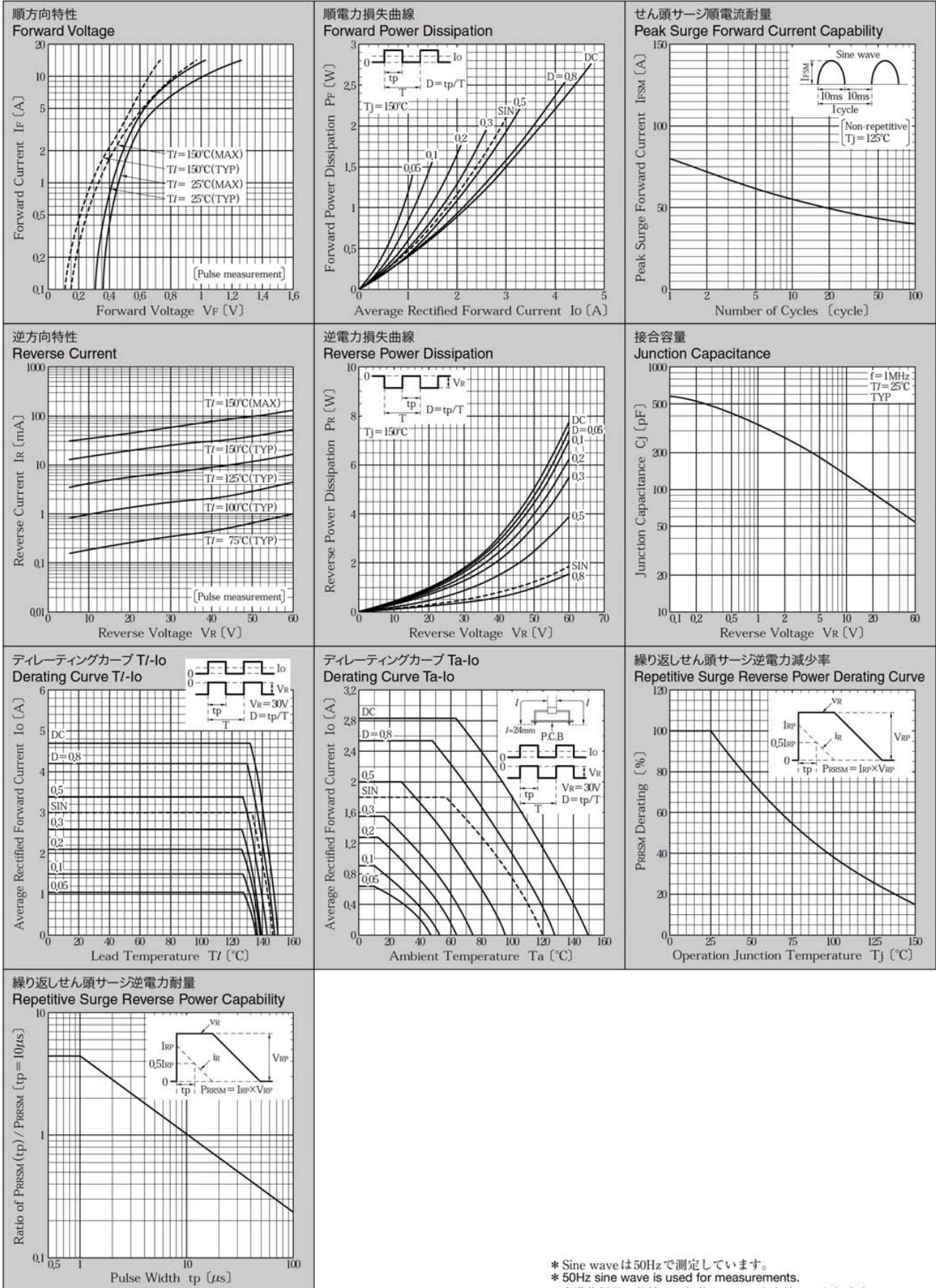
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_I = 25^\circ\text{C}$ )**

| 項目<br>Item   | 記号<br>Symbol | 条件<br>Conditions  | 品名<br>Type No.            | D3S6M   | 単位<br>Unit       |
|--|--------------|---|---------------------------|---------|------------------|
| 保存温度<br>Storage Temperature                            | $T_{stg}$    |   |                           | -40~150 | $^\circ\text{C}$ |
| 接合部温度<br>Operation Junction Temperature                | $T_j$        |   |                           | 150     | $^\circ\text{C}$ |
| せん頭逆電圧<br>Maximum Reverse Voltage                      | $V_{RM}$     |   |                           | 60      | V                |
| 繰り返しせん頭サージ逆電圧<br>Repetitive Peak Surge Reverse Voltage | $V_{RRSM}$   | パルス幅0.5ms, duty 1/40<br>Pulse width 0.5ms, duty 1/40  |                           | 65      | 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   | $T_I = 133^\circ\text{C}$ | 3       | A                |
|  |              |   | $T_a = 57^\circ\text{C}$  | 1.8     |                  |
| 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, $T_j = 125^\circ\text{C}$<br>50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j = 125^\circ\text{C}$ |                           | 80      | A                |
| 繰り返しせん頭サージ逆電力<br>Repetitive Peak Surge Reverse Power   | $P_{RRSM}$   | パルス幅10 $\mu\text{s}$ , 1素子当りの規格値, $T_j = 25^\circ\text{C}$<br>Pulse width 10 $\mu\text{s}$ , Per diode, $T_j = 25^\circ\text{C}$    |                           | 330     | W                |

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

|                              |               |   |  |          |                           |
|------------------------------|---------------|---|--|----------|---------------------------|
| 順電圧<br>Forward Voltage       | $V_F$         | $I_F = 3\text{A}$ , パルス測定<br>Pulse measurement            |  | MAX 0.58 | V                         |
| 逆電流<br>Reverse Current       | $I_R$         | $V_R = V_{RM}$ , パルス測定<br>Pulse measurement               |  | MAX 2.5  | mA                        |
| 接合容量<br>Junction Capacitance | $C_j$         | $f = 1\text{MHz}$ , $V_R = 10\text{V}$                    |  | TYP 130  | pF                        |
| 熱抵抗<br>Thermal Resistance    | $\theta_{jI}$ | 接合部・リード間<br>Junction to lead                              |  | MAX 6.5  | $^\circ\text{C}/\text{W}$ |
|                              | $\theta_{ja}$ | 接合部・周囲間 (フィンなし)<br>Junction to ambient (Without heatsink) |  | MAX 62   |                           |

■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おり、Typical は統計的な実力を表しています。  
 \* Semiconductor products generally have characteristic variation. Typical is a statistical average of the device's ability.