

**S3K60****600V 3A****特長**

- 高耐圧FRD
- $t_{rr}=100\text{ns}$
- 低 $V_F=1.3\text{V}$

**Feature**

- High Voltage Supper FRD
- $t_{rr}=100\text{ns}$
- Low  $V_F=1.3\text{V}$

**用途**

- スイッチング電源
- 家電、OA
- 通信
- フライホール

**Main Use**

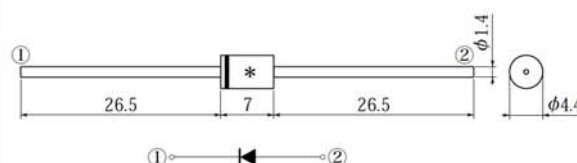
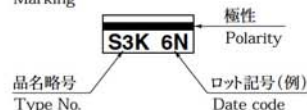
- Switching Regulator
- Home Appliance, Office Automation
- Communication
- Fly Wheel

**■外観図 OUTLINE**

Package : AX14

Unit:mm

Weight 1.06g (Typ)

\* 捺印面展開図  
Marking

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".

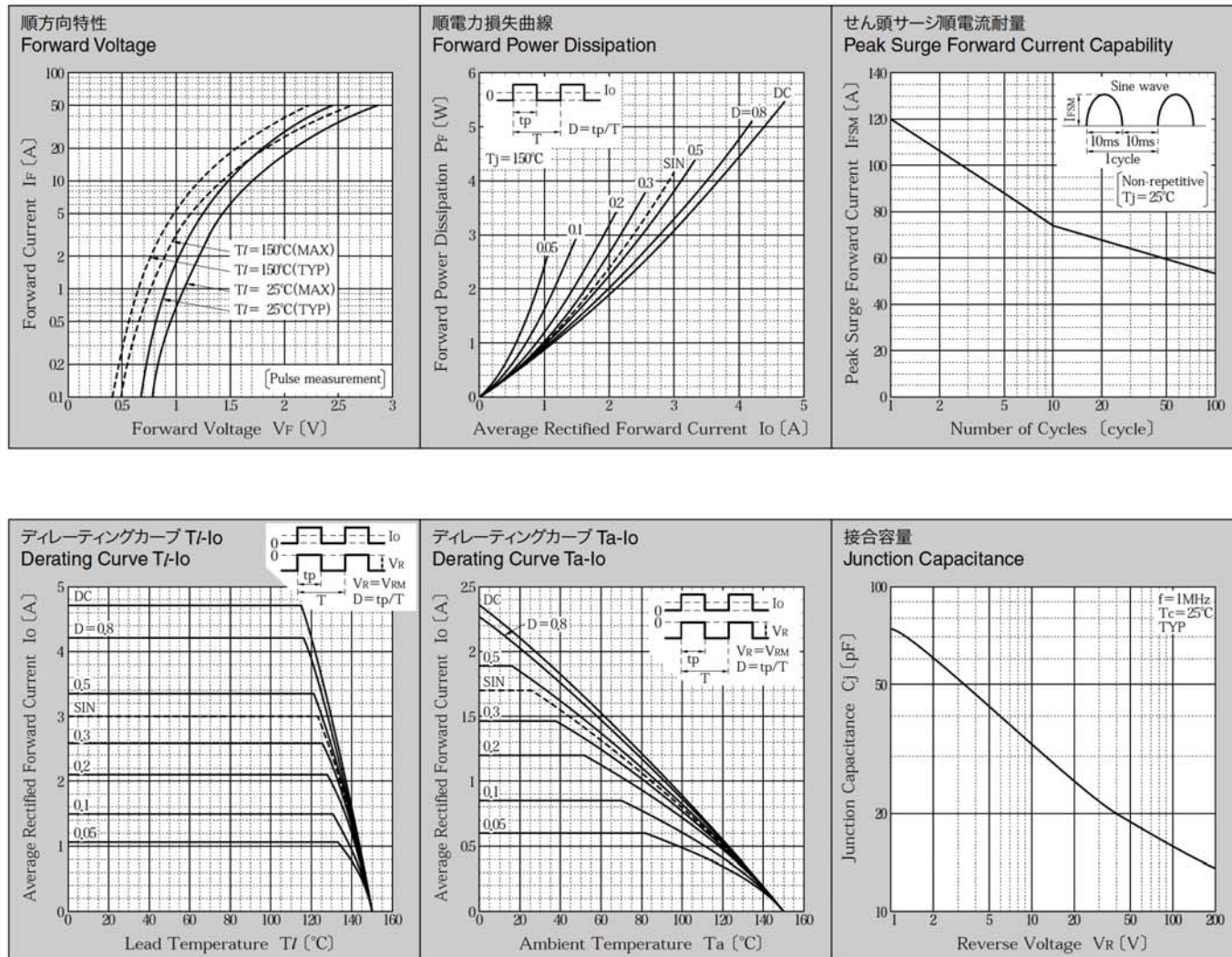
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings** (指定のない場合  $T_I = 25^\circ\text{C}$ )

| 項目<br>Item                                | 記号<br>Symbol | 条件<br>Conditions                                                                                                                 | 品名<br>Type No.            | S3K60   | 単位<br>Unit       |
|-------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------|------------------|
| 保存温度<br>Storage Temperature               | $T_{stg}$    |                                                                                                                                  |                           | -55~150 | $^\circ\text{C}$ |
| 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         | $V_{RM}$     | $T_I = 125^\circ\text{C}$                                                                                                        |                           | 600     | 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                                                                                 | $T_I = 123^\circ\text{C}$ | 3       | A                |
|                                           |              |                                                                                                                                  | $T_a = 25^\circ\text{C}$  | 1.7     |                  |
| 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, $T_j = 25^\circ\text{C}$<br>50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j = 25^\circ\text{C}$ |                           | 120     | A                |

**●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 1.3 | V                  |
| 逆電流<br>Reverse Current         | $I_R$         | $V_R = 600\text{V}$ , パルス測定<br>Pulse measurement | MAX 10  | $\mu\text{A}$      |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$        | MAX 100 | ns                 |
| 熱抵抗<br>Thermal Resistance      | $\theta_{jl}$ | 接合部・リード間<br>Junction to lead                     | MAX 6.5 | $^\circ\text{C/W}$ |
|                                | $\theta_{ja}$ | 接合部・周囲間<br>Junction to ambient                   | MAX 60  |                    |

## ■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 statistical average of the device's ability.  
 \* Semiconductor products generally have characteristic variation.  
 Typical is a statistical average of the device's ability.

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工作機器、パーソナル機器、産業用機器等  
[特別用途]  
輸送機器（車載、船舶等）、基幹用通信機器、交通信号機器、防災/防犯機器、各種安全機器、医療  
機器等  
[特定用途]  
原子力制御システム、航空機器、航空宇宙機器、海底中継機器、生命維持のための装置、システム  
等
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**[Special applications]**

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**[Specific applications]**

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