

**D1NS4****40V 1A****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**

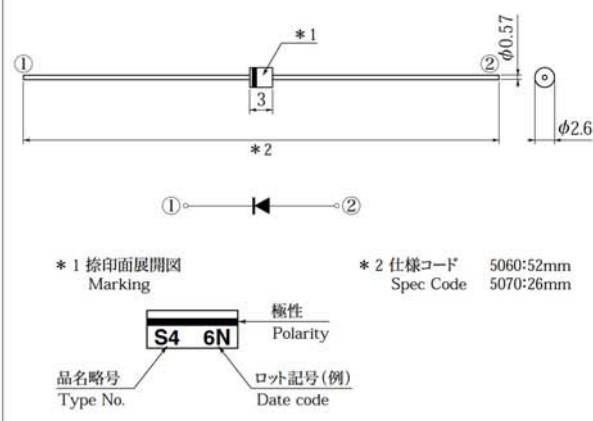
- Switching Regulator
- DC/DC Converter
- Home Appliance, Game, Office Automation
- Communication, Portable set

**■外観図 OUTLINE**

Package : AX057

Unit:mm

Weight 0.19g (Typ)



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".

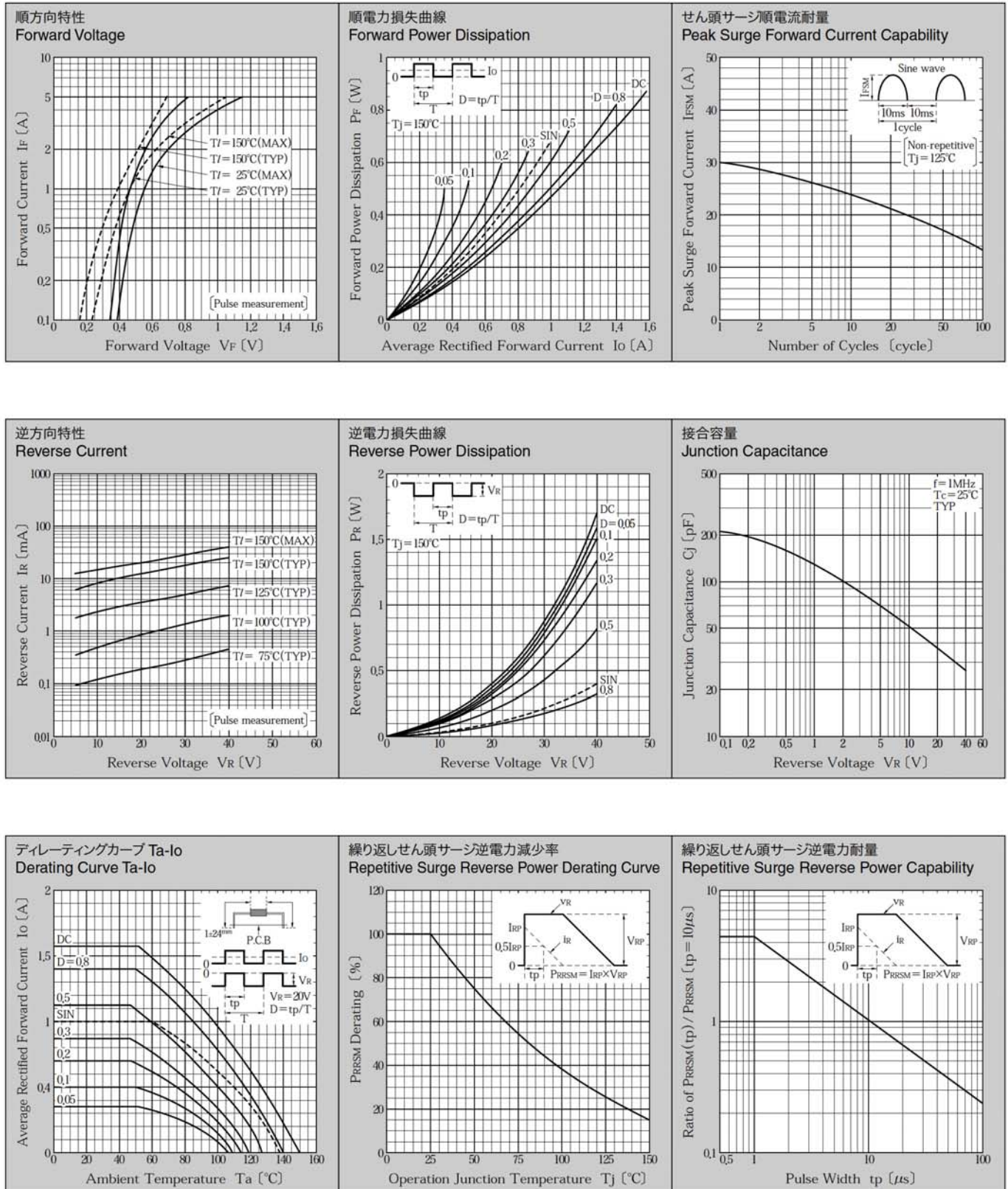
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_I = 25^{\circ}\text{C}$ )**

| 項目<br>Item                                             | 記号<br>Symbol | 条件<br>Conditions                                                                                                                                                       | 品名<br>Type No. | D1NS4   | 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                      | $V_{RM}$     |                                                                                                                                                                        |                | 40      | 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                                                                                                                   |                | 45      | V                  |
| 出力電流<br>Average Rectified Forward Current              | $I_o$        | 50Hz正弦波, 抵抗負荷, プリント基板実装, リード線長=24mm, $T_a=59^{\circ}\text{C}$<br>50Hz sine wave, Resistance load, On glass-epoxy substrate, Lead length=24mm, $T_a=59^{\circ}\text{C}$ |                | 1       | A                  |
| 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, $T_j=125^{\circ}\text{C}$                                     |                | 30      | 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 $\mu\text{s}$ , $T_j=25^{\circ}\text{C}$<br>Pulse width 10 $\mu\text{s}$ , $T_j=25^{\circ}\text{C}$                                                             |                | 60      | 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       | $V_F$         | $I_F = 1\text{A}$ , パルス測定<br>Pulse measurement                     | MAX 0.55 | V                    |
| 逆電流<br>Reverse Current       | $I_R$         | $V_R = V_{RM}$ , パルス測定<br>Pulse measurement                        | MAX 0.8  | mA                   |
| 接合容量<br>Junction Capacitance | $C_j$         | $f = 1\text{MHz}$ , $V_R = 10\text{V}$                             | TYP 50   | pF                   |
| 熱抵抗<br>Thermal Resistance    | $\theta_{jl}$ | 接合部・リード間<br>Junction to lead                                       | MAX 10   | $^{\circ}\text{C/W}$ |
|                              | $\theta_{ja}$ | 接合部・周囲間, プリント基板実装<br>Junction to ambient, On glass-epoxy substrate | MAX 113  |                      |

## ■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.

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【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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