

**D1FS6****60V 1.1A****特長**

- 小型SMD
- PRISMアバランシェ保証

**Feature**

- Small SMD
- PRISM 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**

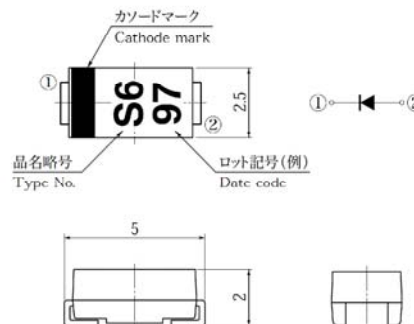
- Switching Regulator
- DC/DC Converter
- Home Appliance, Game, Office Automation
- Communication, Portable set

**■外観図 OUTLINE**

Package : 1F

Unit:mm

Weight 0.058g (Typ)



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下さい。

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".

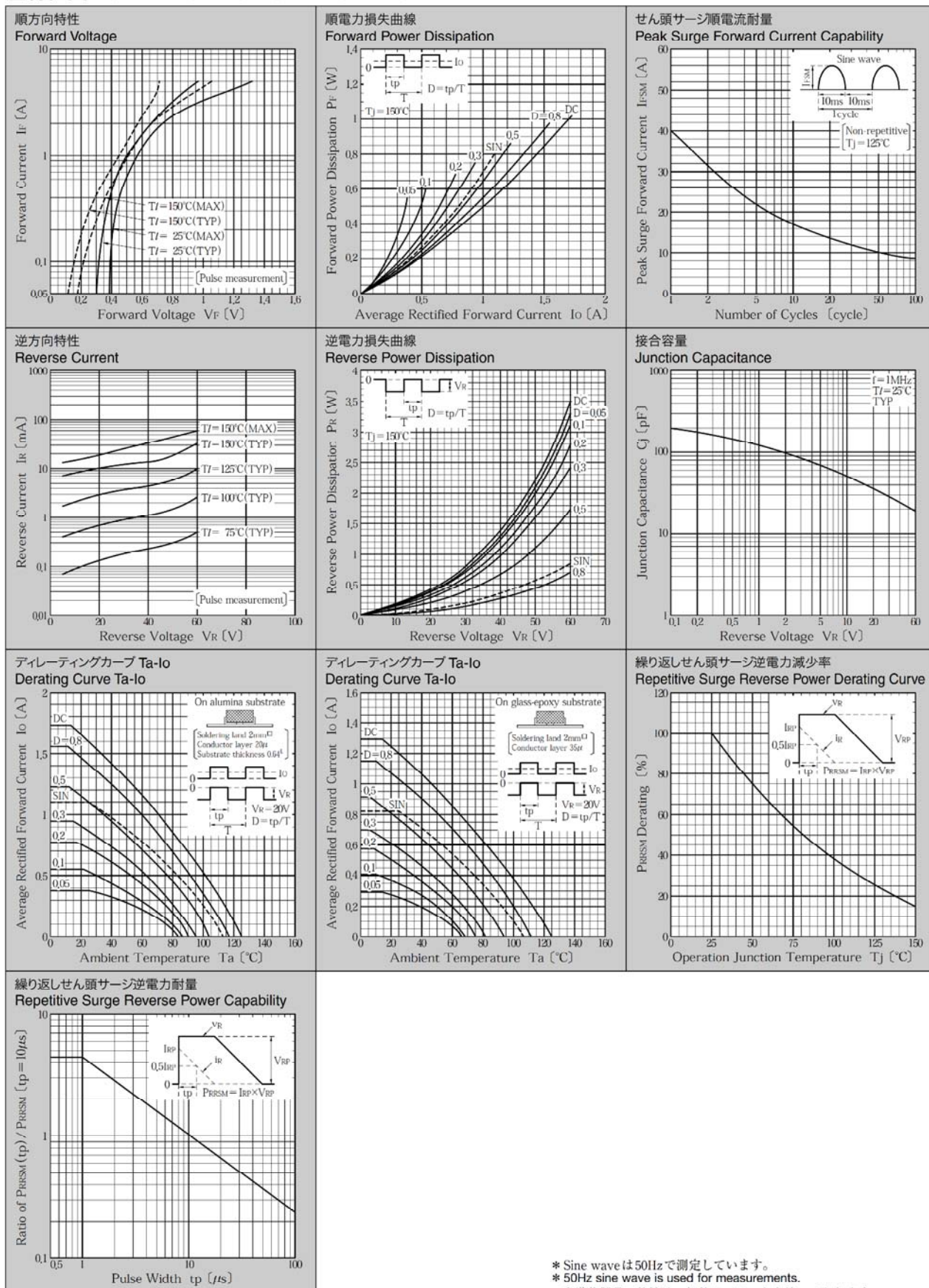
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_I = 25^\circ\text{C}$ )**

| 項目<br>Item                                             | 記号<br>Symbol | 条件<br>Conditions                                                                                                                   | 品名<br>Type No.                                                | D1FS6   | 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                      | $V_{RM}$     |                                                                                                                                    |                                                               | 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                                                                                   | $T_a = 25^\circ\text{C}$ アルミナ基板実装<br>On alumina substrate     | 1.1     | A                |
|                                                        |              |                                                                                                                                    | $T_a = 25^\circ\text{C}$ プリント基板実装<br>On glass-epoxy substrate | 0.82    |                  |
| 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, $T_j = 125^\circ\text{C}$ |                                                               | 40      | 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       | $V_F$         | $I_F = 1.1\text{A}$ , 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 1                                | 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 23                               | $^\circ\text{C/W}$ |
|                              | $\theta_{ja}$ | 接合部・周囲間<br>Junction to ambient                   | アルミナ基板実装<br>On alumina substrate     |                    |
|                              |               |                                                  | プリント基板実装<br>On glass-epoxy substrate |                    |

## ■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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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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