

**D2FK60****600V 1.5A****特長**

- 小型SMD
- 高耐圧
- $t_{rr}=75\text{ns}$
- 低 $V_F=1.3\text{V}$

**Feature**

- Small SMD
- High Voltage
- $t_{rr}=75\text{ns}$
- Low  $V_F=1.3\text{V}$

**用途**

- スイッチング電源
- DC/DC コンバータ
- 家電、OA
- 通信
- フライホール

**Main Use**

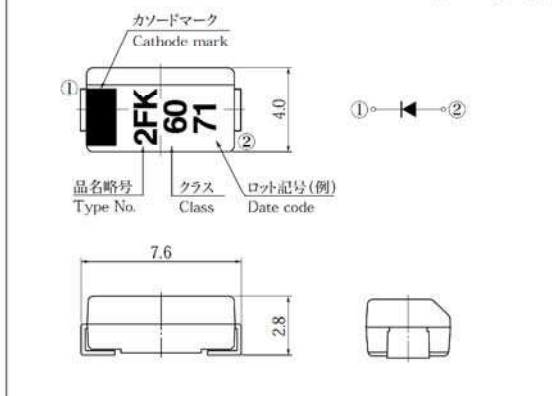
- Switching Regulator
- DC/DC Converter
- Home Appliance, Office Automation
- Communication
- Fly Wheel

**■外観図 OUTLINE**

Package : 2F

Unit:mm

Weight 0.16g (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.                                                | D2FK60  | 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         | $V_{RM}$     |                                                                                                                                   |                                                               | 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                                                                                 | $T_I = 101^\circ\text{C}$                                     | 1.5     | A                |
|                                           |              |                                                                                                                                   | $T_a = 30^\circ\text{C}$ アルミナ基板実装<br>On alumina substrate     | 1.1     |                  |
|                                           |              |                                                                                                                                   | $T_a = 28^\circ\text{C}$ プリント基板実装<br>On glass-epoxy substrate | 0.9     |                  |
| 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, $T_j = 25^\circ\text{C}$ |                                                               | 40      | A                |

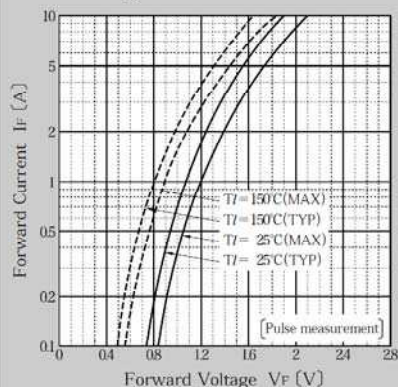
**●電氣的・熱的特性 Electrical Characteristics** (指定のない場合  $T_I = 25^\circ\text{C}$ )

|                                |               |                                                       |         |                    |
|--------------------------------|---------------|-------------------------------------------------------|---------|--------------------|
| 順電圧<br>Forward Voltage         | $V_F$         | $I_F = 1.5\text{A}$ , パルス測定<br>Pulse measurement      | MAX 1.3 | V                  |
| 逆電流<br>Reverse Current         | $I_R$         | $V_R = V_{RM}$ , パルス測定<br>Pulse measurement           | MAX 10  | $\mu\text{A}$      |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$ , $0.25I_R$ | MAX 75  | ns                 |
| 接合容量<br>Junction Capacitance   | $C_j$         | $f = 1\text{MHz}$ , $V_R = 10\text{V}$                | TYP 16  | pF                 |
| 熱抵抗<br>Thermal Resistance      | $\theta_{jl}$ | 接合部・リード間<br>Junction to lead                          | MAX 24  | $^\circ\text{C/W}$ |
|                                | $\theta_{ja}$ | 接合部・周囲間<br>Junction to ambient                        | MAX 90  |                    |
|                                |               |                                                       | MAX 120 |                    |

## ■特性図 CHARACTERISTIC DIAGRAMS

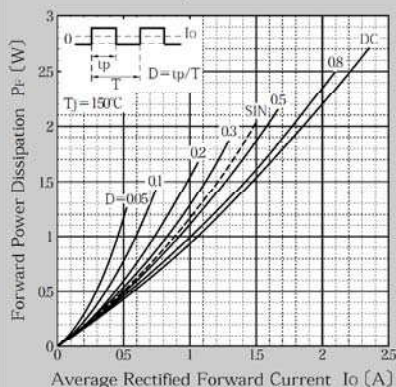
順方向特性

Forward Voltage



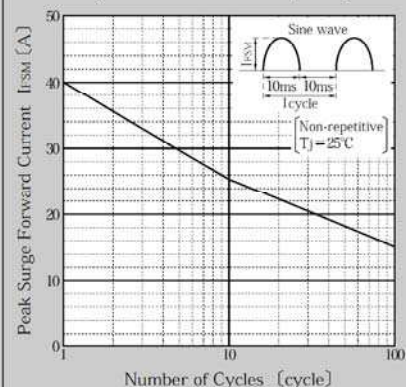
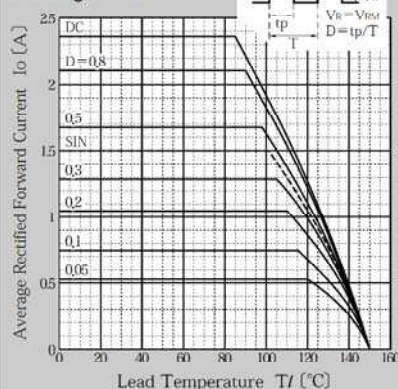
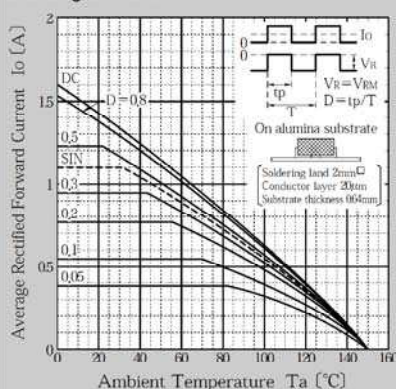
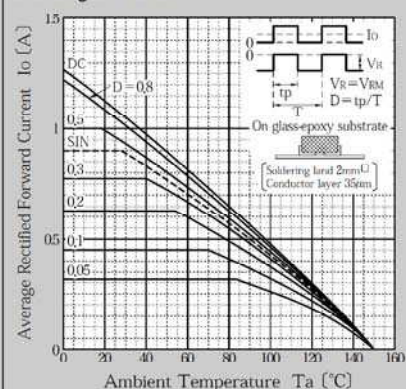
順電力損失曲線

Forward Power Dissipation



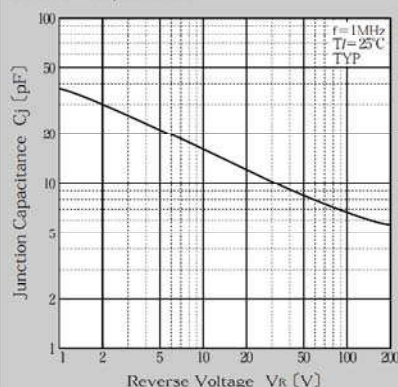
せん頭サージ順電流耐量

Peak Surge Forward Current Capability

ディレーティングカーブ  $T_J$ - $I_o$   
Derating Curve  $T_J$ - $I_o$ ディレーティングカーブ  $T_a$ - $I_o$   
Derating Curve  $T_a$ - $I_o$ ディレーティングカーブ  $T_a$ - $I_o$   
Derating Curve  $T_a$ - $I_o$ 

接合容量

Junction Capacitance



- \* 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.