

D1FK100

1000V 1A

特長

- 小型 SMD
- 高耐圧
- 低ノイズ
- AEC-Q101 準拠

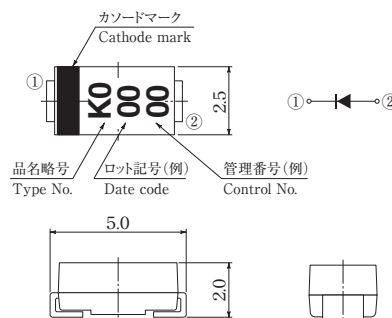
Feature

- Small SMD
- High Voltage
- Low Noise
- Based on AEC-Q101

■ 外観図 OUTLINE

Package : 1F

Unit : mm



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

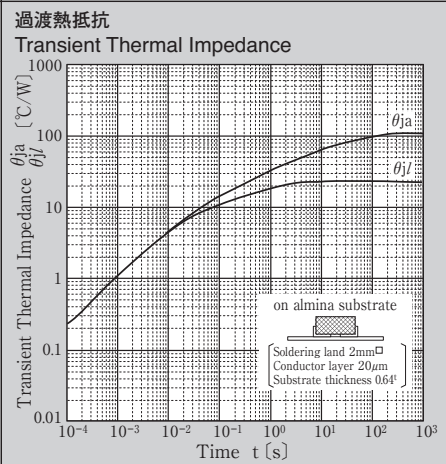
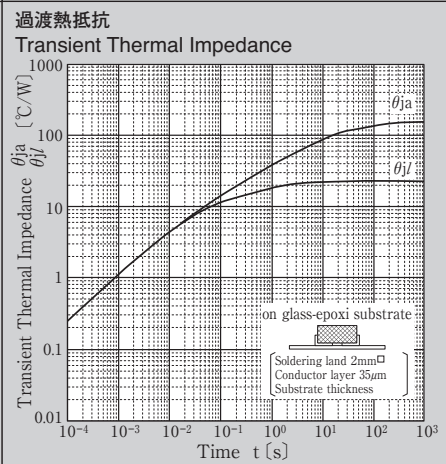
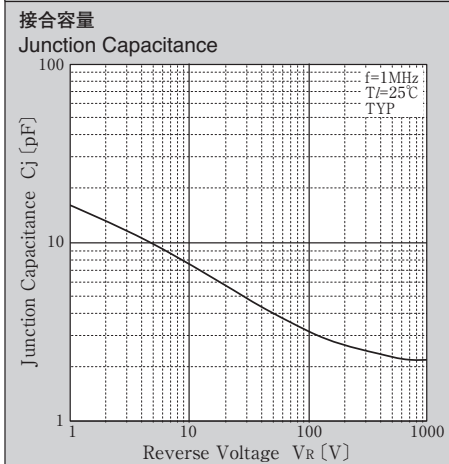
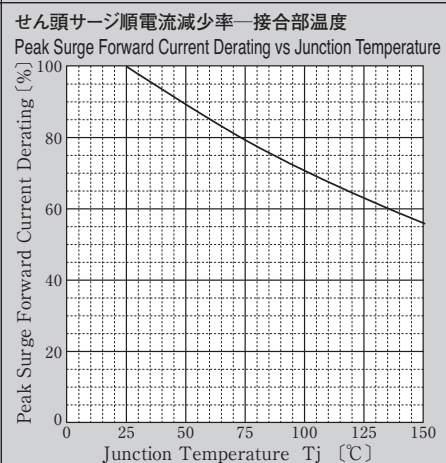
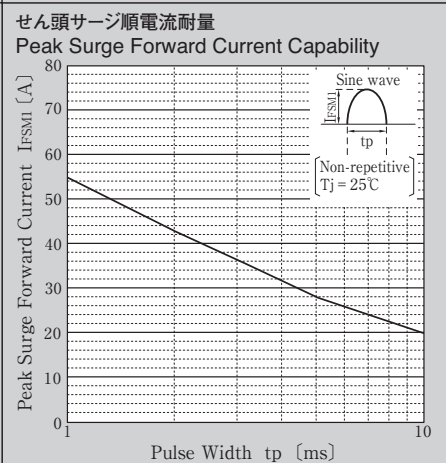
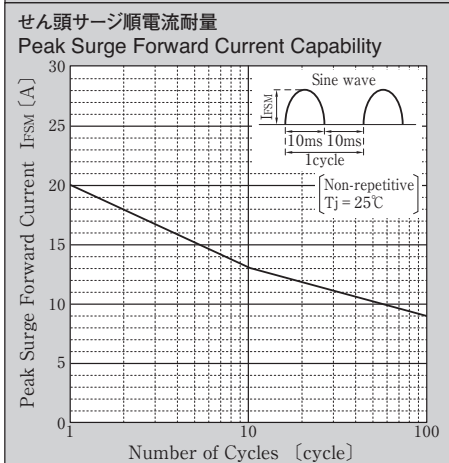
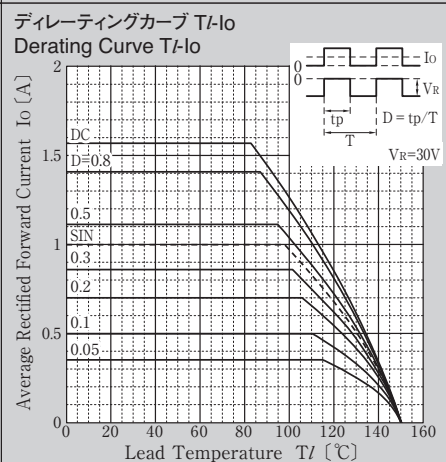
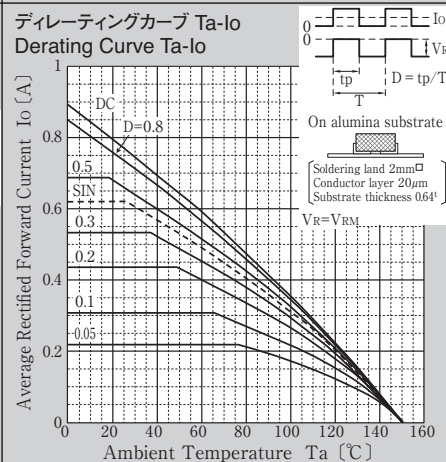
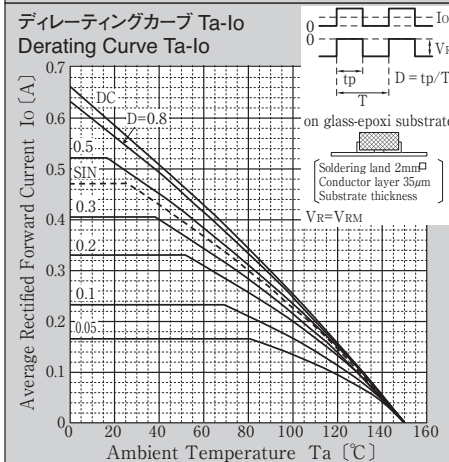
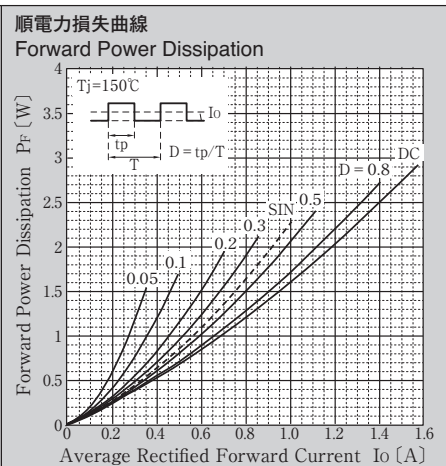
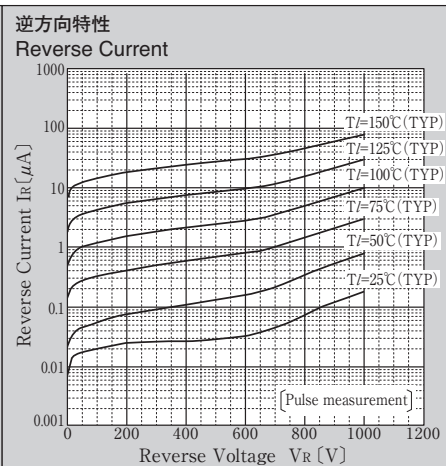
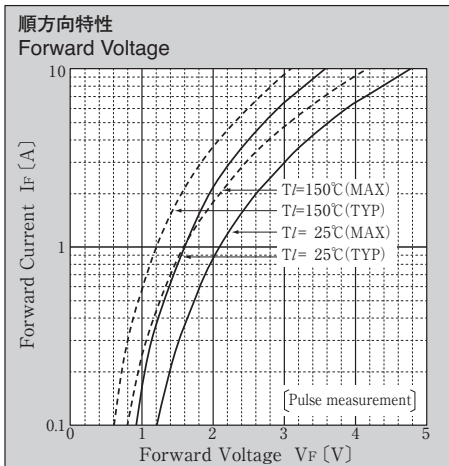
● 絶対最大定格 Absolute Maximum Ratings (指定のない場合 $T_l = 25^\circ\text{C}$ / unless otherwise specified)

| 項目 Item | 記号 Symbol | 条件 Conditions | 規格値 Ratings | 単位 Unit |
|---|--------------|---|----------------|------------------|
| 保存温度 Storage Temperature | T_{stg} | | - 55 ~ 150 | $^\circ\text{C}$ |
| 接合部温度 Operating Junction Temperature | T_j | | 150 | $^\circ\text{C}$ |
| せん頭逆電圧 Maximum Reverse Voltage | V_{RM} | | 1000 | V |
| 出力電流 Average Rectified Forward Current | I_o | $T_a = 25^\circ\text{C}$ アルミナ基板実装 On alumina substrate | 0.62 | A |
| | | $T_a = 25^\circ\text{C}$ プリント基板実装 On glass-epoxy substrate | 0.47 | |
| | | $T_l = 97^\circ\text{C}$ | 1.0 | |
| せん頭サージ順電流 Peak Surge Forward Current | I_{FSM} | 50Hz 正弦波, 非繰り返し 1 サイクルせん頭値, $T_j = 25^\circ\text{C}$ 50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j = 25^\circ\text{C}$ | 20 | A |
| | I_{FSM1} | tp = 1ms 正弦波, 非繰り返し 1 サイクルせん頭値, $T_j = 25^\circ\text{C}$ tp = 1ms Sine wave, Non-repetitive 1 cycle peak value, $T_j = 25^\circ\text{C}$ | 55 | A |

● 電氣的・熱的特性 Electrical Characteristics (指定のない場合 $T_l = 25^\circ\text{C}$ / unless otherwise specified)

| | | | | |
|--------------------------------|---------------|--|---------|---------------------------|
| 順電圧 Forward Voltage | V_F | $I_F = 1\text{A}$, パルス測定 Pulse measurement | MAX 2.1 | V |
| 逆電流 Reverse Current | I_R | $V_R = 1000\text{V}$, パルス測定 Pulse measurement | MAX 10 | μA |
| 逆回復時間 Reverse Recovery Time | trr | $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $0.25 I_R$ | MAX 75 | ns |
| 接合容量 Junction Capacitance | C_j | f = 1MHz, $V_R = 10\text{V}$ | TYP 7.5 | pF |
| 熱抵抗 Thermal Resistance | θ_{jl} | 接合部・リード間 Junction to lead | MAX 23 | $^\circ\text{C}/\text{W}$ |
| | θ_{ja} | 接合部・周囲間, アルミナ基板実装 Junction to ambient, On alumina substrate | MAX 108 | |
| | | 接合部・周囲間, プリント基板実装 Junction to ambient, On glass-epoxy substrate | MAX 157 | |

■特性図 CHARACTERISTIC DIAGRAMS



* Sine wave は 50Hz で測定しています。
* 50Hz sine wave is used for measurements.

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