

D1FK100

1000V 1A

## 特長

- 小型 SMD
- 高耐圧
- 低ノイズ
- AEC-Q101 準拠

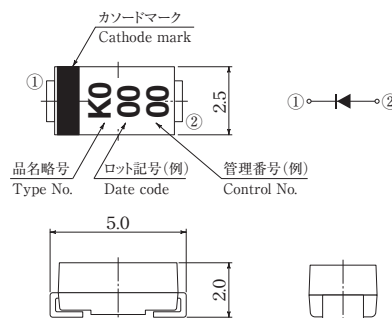
## Feature

- 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

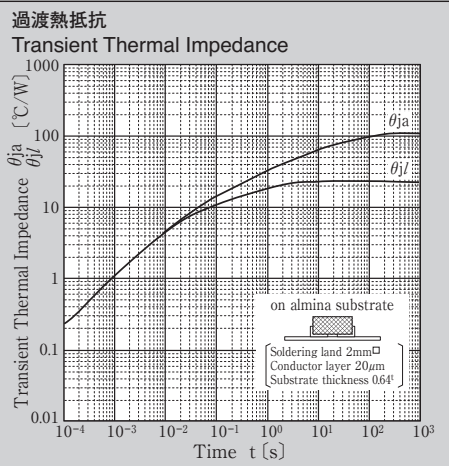
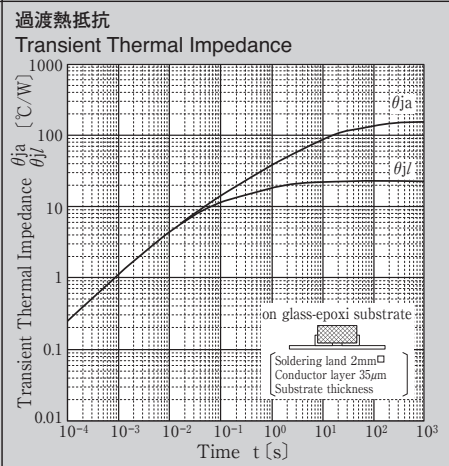
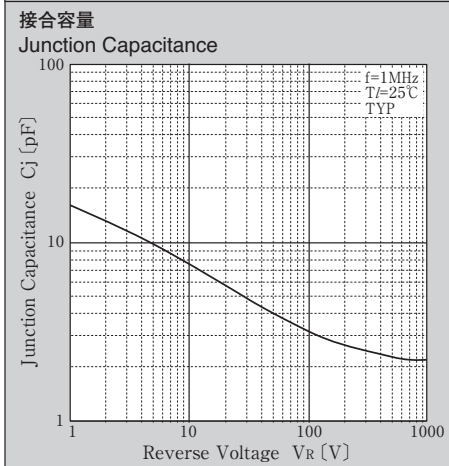
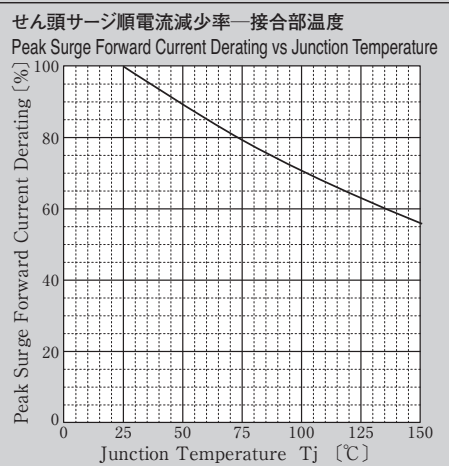
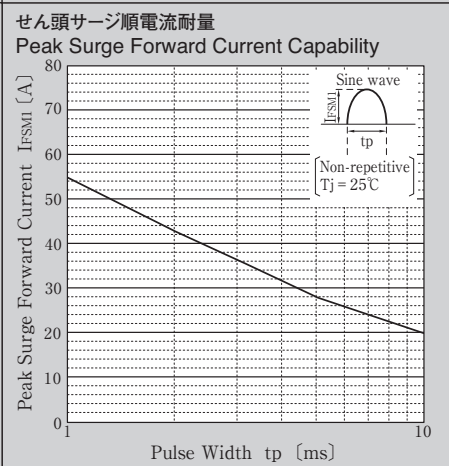
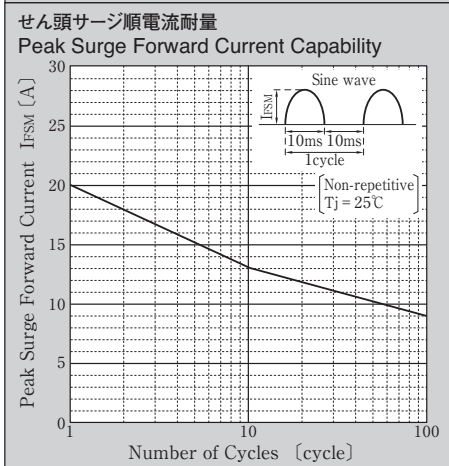
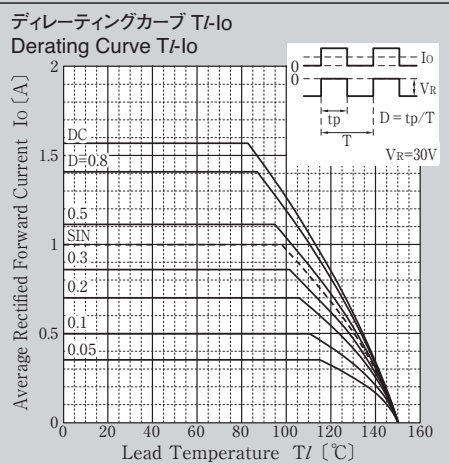
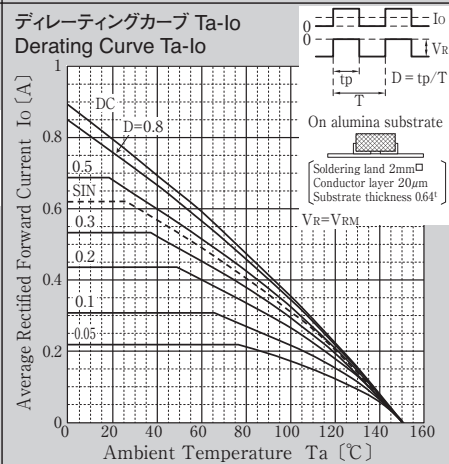
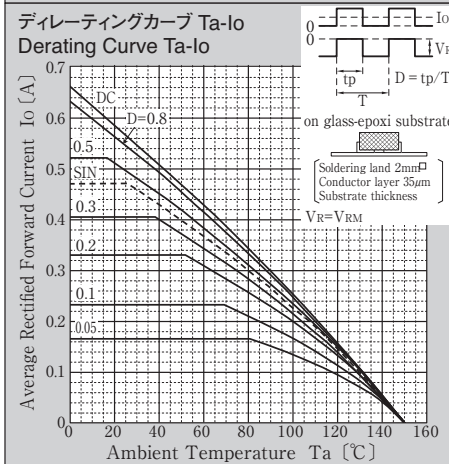
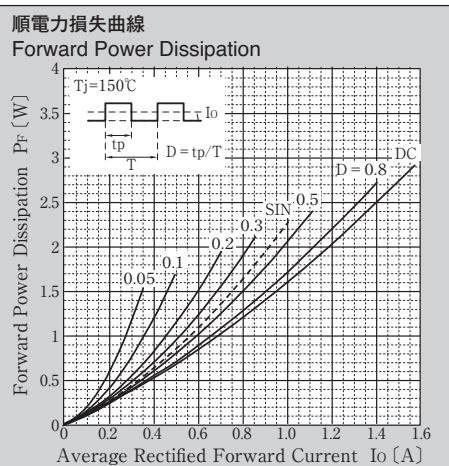
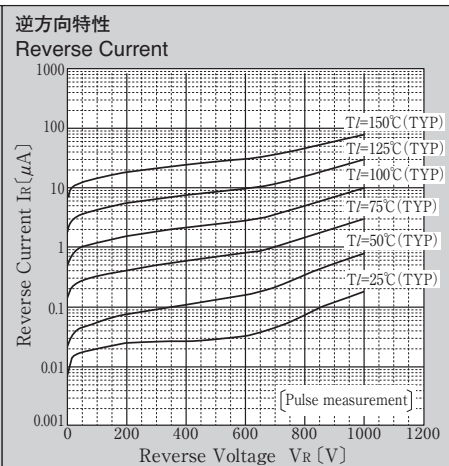
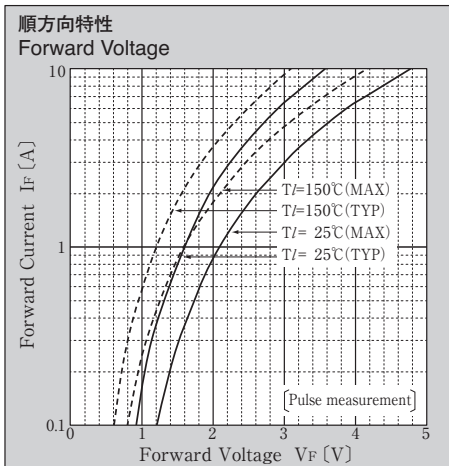
● 絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_l = 25^\circ\text{C}$  / unless otherwise specified)

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	$\mu\text{A}$
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$ , $0.25 I_R$	MAX 75	ns
接合容量 Junction Capacitance	$C_j$	$f = 1\text{MHz}$ , $V_R = 10\text{V}$	TYP 7.5	pF
熱抵抗 Thermal Resistance	$\theta_{jl}$	接合部・リード間 Junction to lead	MAX 23	$^\circ\text{C}/\text{W}$
	$\theta_{ja}$	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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