

## Surface Mount Schottky Barrier

**SKD0104N6**

**40V**

**100mA**

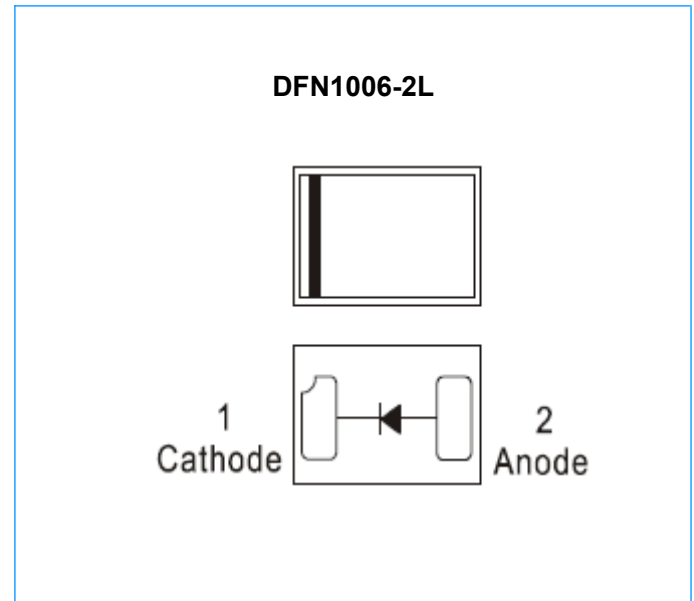
**DFN1006-2L**

### Features

- u Small package
- u Low forward voltage :  $V_F(3)=0.51V(\text{typ.})$
- u Low reverse current :  $I_R=5mA(\text{Max.})$
- u Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- u Green molding compound as per IEC61249 Std.. (Halogen Free)

### Mechanical Data

- u Case: DFN1006-2L plastic case
- u Terminals: Solderable per MIL-STD-750, Method 2026
- u Approx. Weight: 0.00004 ounces, 0.0011 grams



### Maximum Ratings ( $T_A=25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	$V_{RM}$	45	V
Peak Reverse Voltage	$V_R$	40	V
Maximum (Peak) Forward Current	$I_{FM}$	200	mA
Average Forward Current	$I_O$	100	mA
Surge Current (10ms)	$I_{FSM}$	1	A
Power Dissipation	$P_D$	100	mW
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125	$^\circ\text{C}$

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## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F1</sub>	I <sub>F</sub> = 1mA	--	0.26	--	V
	V <sub>F2</sub>	I <sub>F</sub> = 10mA	--	0.34	--	V
	V <sub>F3</sub>	I <sub>F</sub> = 100mA	--	0.51	0.62	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 40V	--	--	5	μA
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> = 0V, f = 1MHz	--	10	--	pF

## Typical Characteristic Curves

Fig1. Forward Current Derating Curve

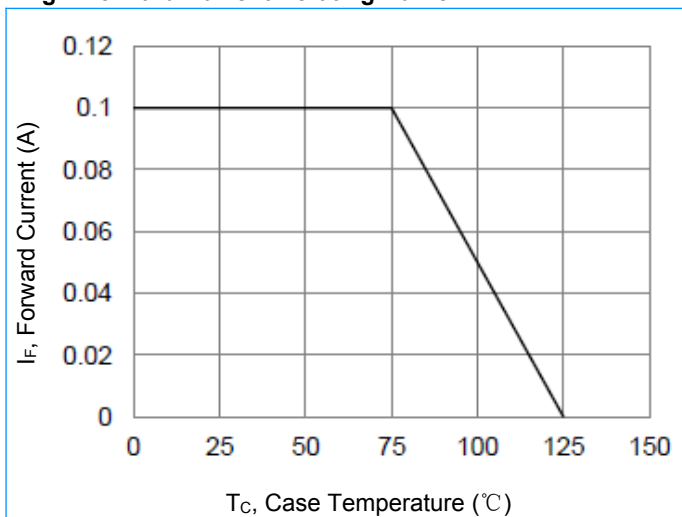


Fig2. Typical Junction Capacitance

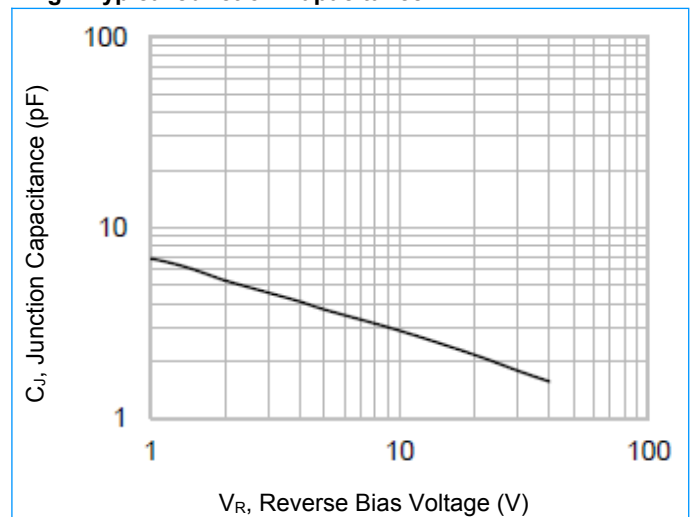


Fig3. Typical Reverse Characteristics

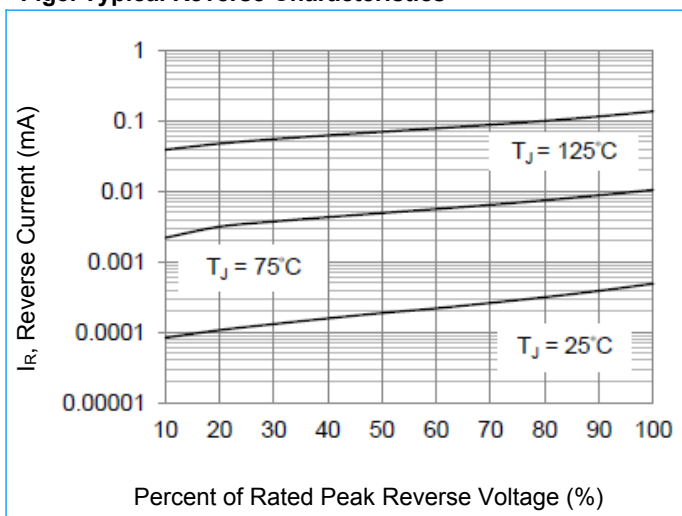
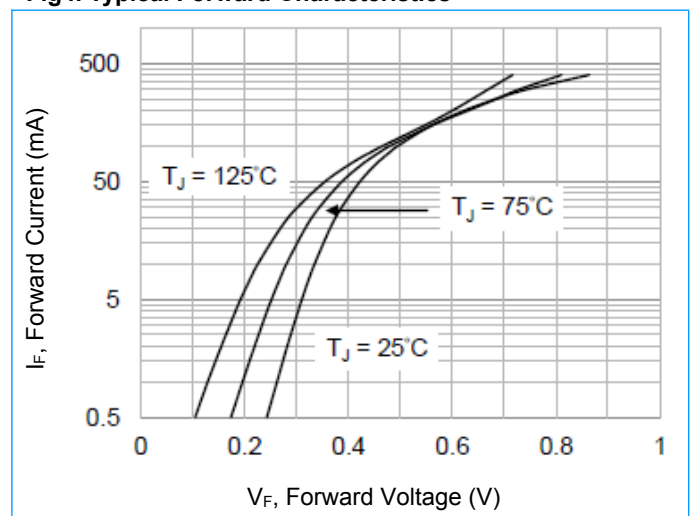


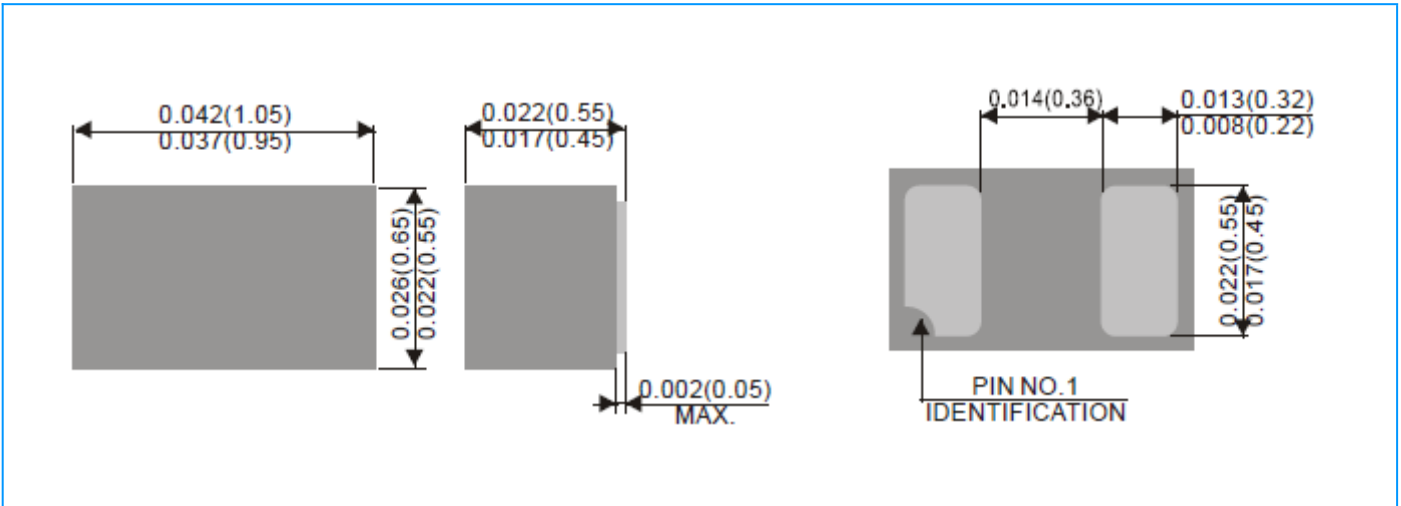
Fig4. Typical Forward Characteristics



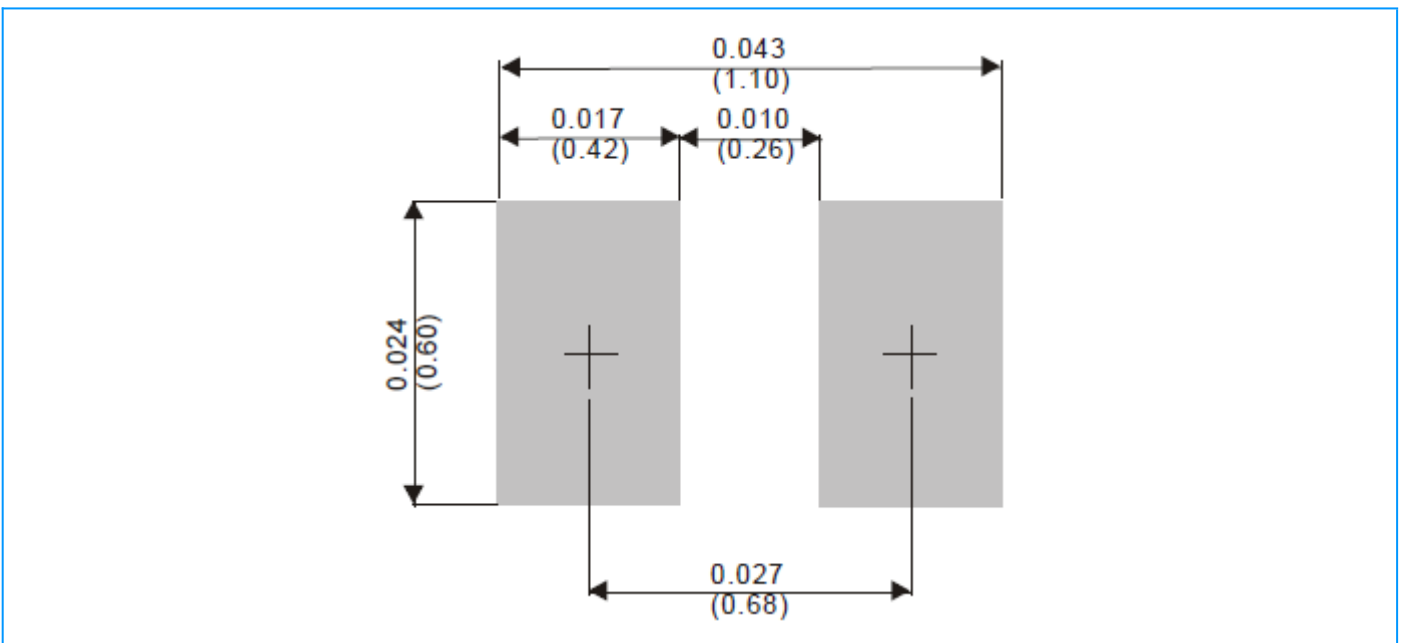
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**DFN1006-2L**

### DFN1006-2L Package Outline Dimensions (Unit: inch(mm))



### DFN1006-2L Mounting Pad Layout (Unit: inch(mm))



### Ordering Information

Part Number	Package	Quantity
<b>SKD0104N6</b>	DFN1006-2L	8000 PCS / 7" Reel