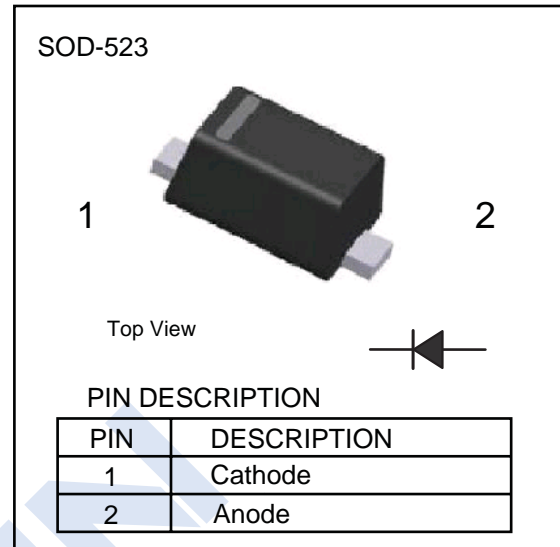


## Schottky Barrier Diode

## 1KK2104G

## ■ Features

- 1 A rectified forward current
- Low forward voltage
- Low leakage current

■ Absolute Maximum Ratings  $T_A = 25^\circ\text{C}$  unless otherwise noted

Parameter	Symbol	Value	Unit
Reverse Voltage (Repetitive Peak)	$V_{RM}$	40	V
Reverse Voltage (DC)	$V_R$	40	
Average Forward Current (Note 1)	$I_{F(AV)}$	1	A
Forward Peak Surge Current @ $t=8.3\text{ms}$ (single pluse)	$I_{FSM}$	7	
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-55 to +150	

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$  unless otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	$V_{BR}$	$I_R = 100\mu\text{A}$	40			V
Forward voltage (Note 2)	$V_F$	$I_F = 500\text{mA}$		0.4	0.5	
		$I_F = 1\text{A}$		0.48	0.62	
Reverse Leakage current	$I_R$	$V_R = 40\text{V}$			0.1	mA
Junction capacitance	$C_J$	$V_R = 4\text{V}, F = 1\text{MHz}$			35	pF

Notes:

1. Duty cycle=0.5,  $f=20\text{kHz}$ , square wave
2. Pulsed test,  $t_p \leq 380\mu\text{s}$ ,  $T_j=25^\circ\text{C}$

# Schottky Barrier Diode

## 1KK2104G

■ Typical Characteristics

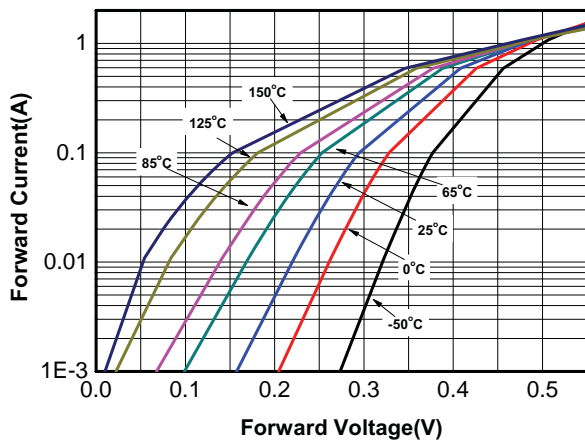


Fig.1 Forward voltage vs. Forward current

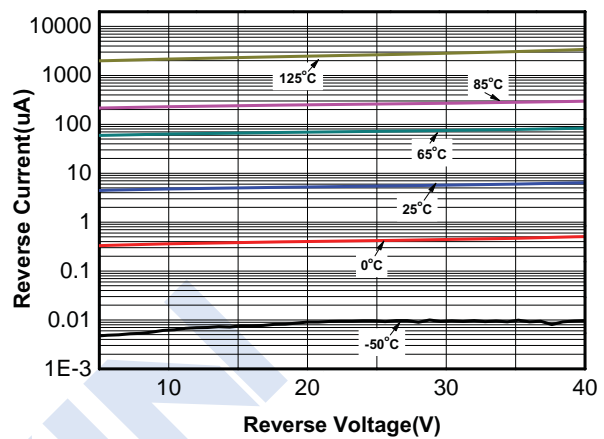


Fig.2 Reverse current vs. Reverse voltage

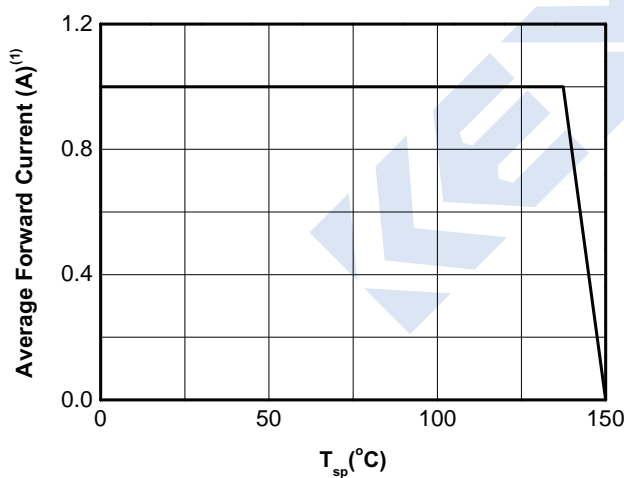


Fig.3 Average Forward Current Derating Curve

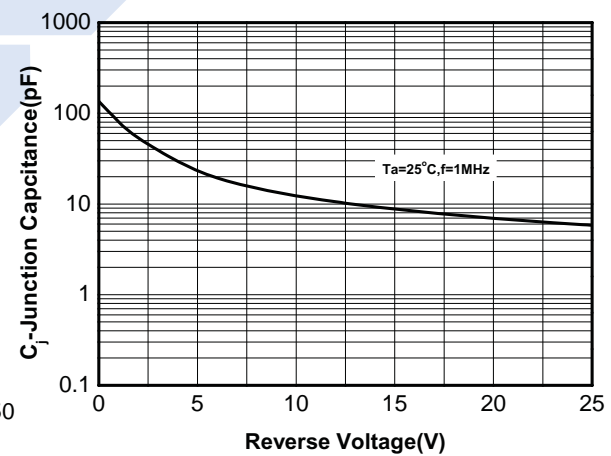


Fig.4 Junction capacitance vs. Reverse voltage

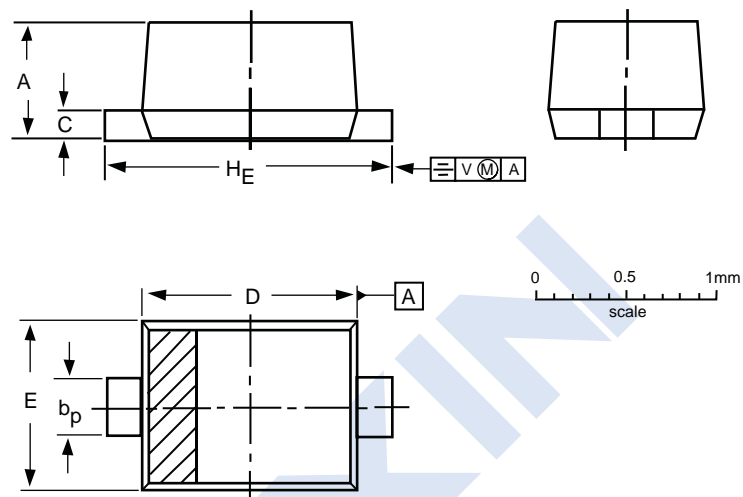
## Schottky Barrier Diode

## 1KK2104G

## ■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-523

**DIMENSIONS (mm are the original dimensions)**

UNIT	A	b <sub>p</sub>	c	D	E	H <sub>E</sub>	V
mm	0.7	0.35	0.2	1.3	0.9	1.7	0.15
	0.5	0.25	0.1	1.1	0.7	1.5	