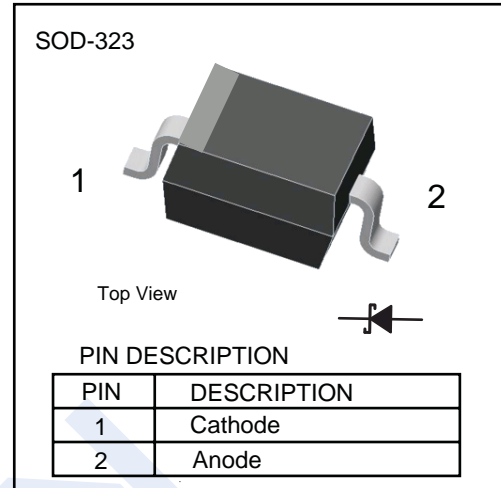


## Schottky Diodes

### 1KK2102F ~ 1KK2104F

#### ■ Features

- Low power loss, high efficiency
- High current capability
- Low forward voltage drop
- High Surge Capability



#### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	1KK2102F	1KK2103F	1KK2104F	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	V
RMS Voltage	$V_{RMS}$	14	21	28	
DC Blocking Voltage	$V_{DC}$	20	30	40	
Forward Voltage @ $I_F=1\text{A}$	$V_F$	0.45	0.55	0.6	
Forward Voltage @ $I_F=3.1\text{A}$		0.75	0.875	0.9	
Average Forward Rectified Current @ $T_L=90^\circ\text{C}$	$I_{FAV}$	1			A
Non-Repetitive Peak Forward Surge Current @8.3ms	$I_{FSM}$	25			
Reverse Voltage Leakage Current	$I_R$	$T_a = 25^\circ\text{C}$	1		mA
		$T_a = 100^\circ\text{C}$	10		
Typical Junction Capacitance	$C_J$	110			pF
Junction Temperature	$T_J$	125			$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-55 to 125			

#### ■ Marking

NO.	1KK2102F	1KK2103F	1KK2104F
Marking	FA	FB	FC

# Schottky Diodes

## 1KK2102F ~ 1KK2104F

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

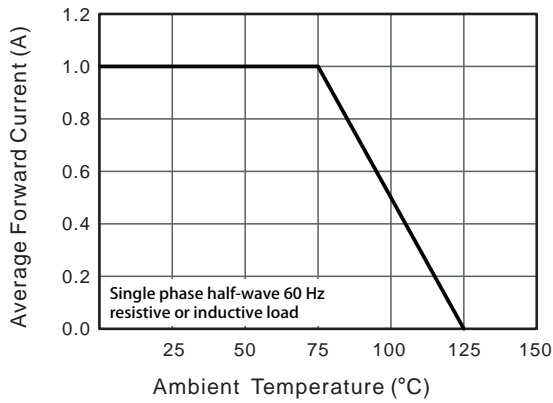


Fig.2 Typical Reverse Characteristics

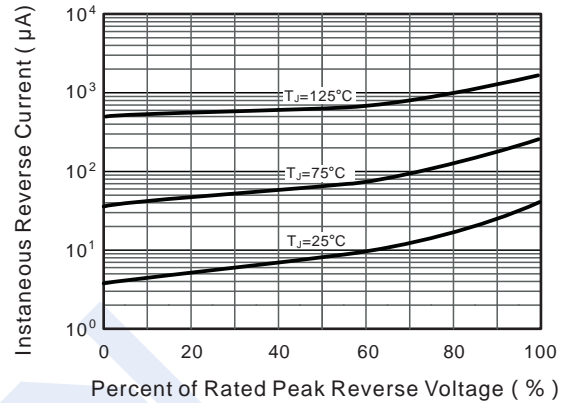


Fig.3 Typical Forward Characteristic

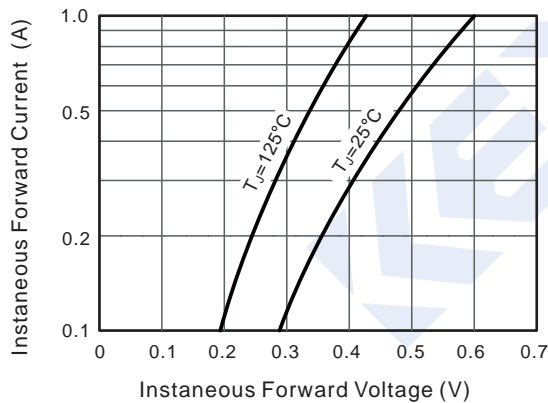


Fig.4 Typical Junction Capacitance

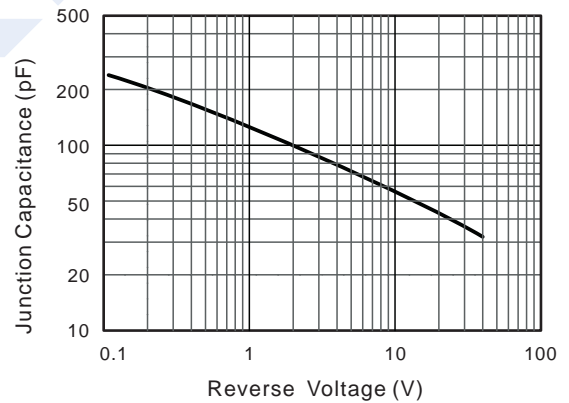


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

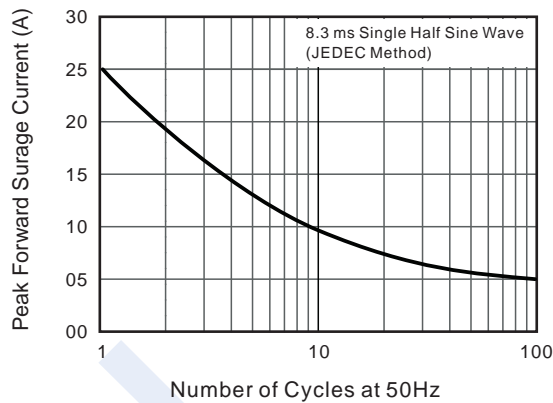
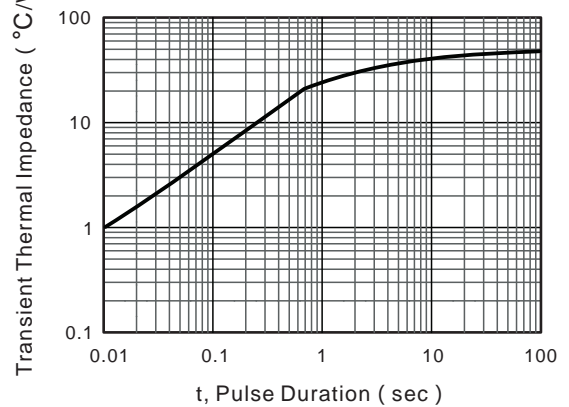


Fig.6- Typical Transient Thermal Impedance



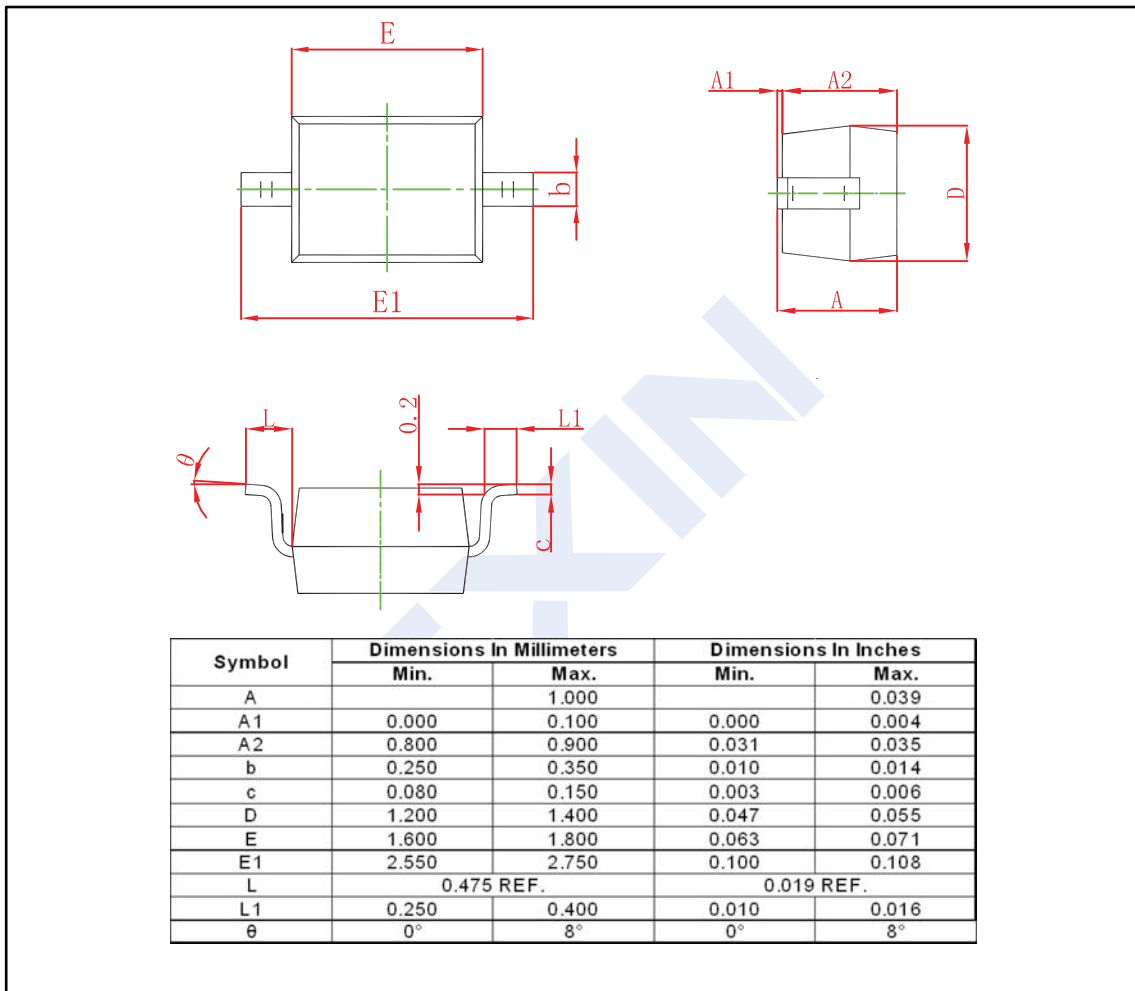
## Schottky Diodes

### 1KK2102F ~ 1KK2104F

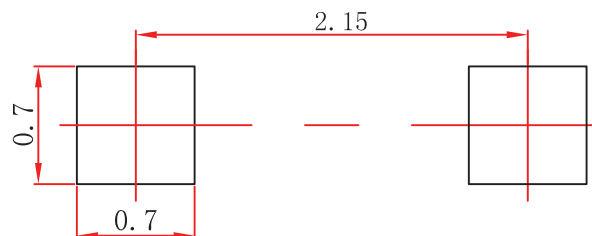
#### ■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-323



#### ■ The Recommended Mounting Pad Size



#### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.