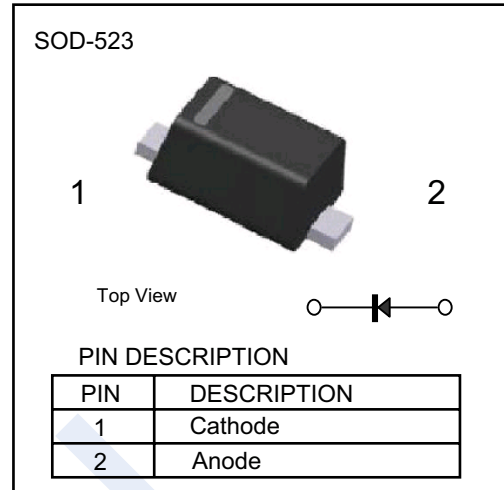


## Switching Diodes

## 1KS4001G

## ■ Features

- Fast Switching Speed
- High reliability

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

Parameter	Symbol	Rating	Unit
Reverse voltage (Repetitive)	$V_{RM}$	90	V
Reverse voltage (DC)	$V_R$	80	
Average rectified forward current	$I_o$	100	mA
Forward voltage (Repetitive Peak)	$I_{FM}$	225	
Surge Current( $t=1\text{s}$ )	$I_{\text{surge}}$	500	
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature range	$T_{\text{stg}}$	-55 to 125	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_R$	$I_R = 100 \mu\text{A}$	90			V
Forward voltage	$V_F$	$I_F = 100 \text{mA}$			1.2	
Reverse voltage leakage current	$I_R$	$V_R = 80 \text{V}$			0.1	$\mu\text{A}$
Junction capacitance	$C_j$	$V_R = 0.5 \text{V}, f = 1 \text{MHz}$			3	pF
Reverse recovery time	$t_{rr}$	$V_R = 6\text{V}, I_F = 10\text{mA}, R_L = 100\Omega$			4	ns

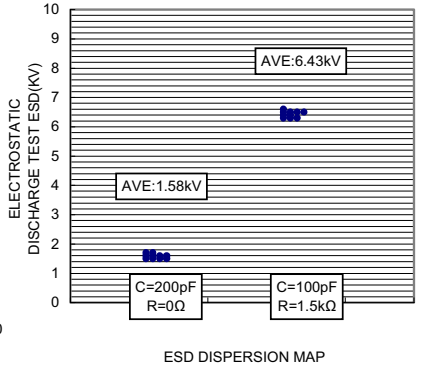
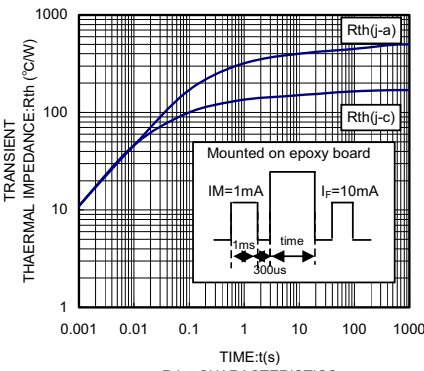
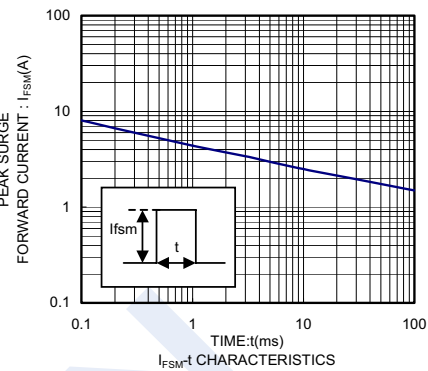
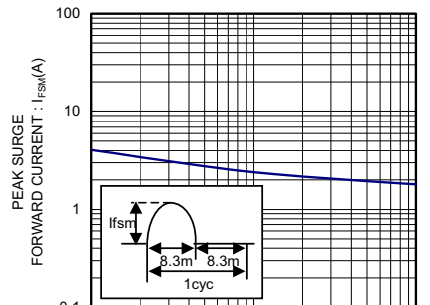
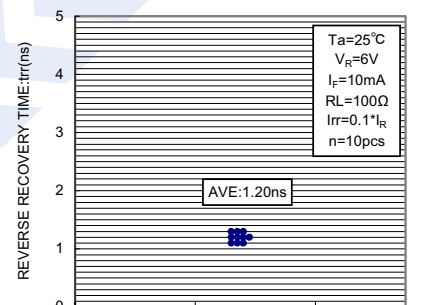
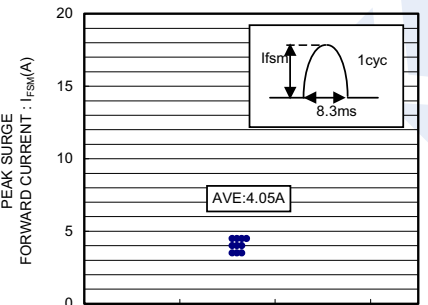
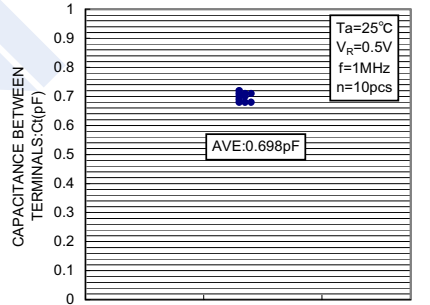
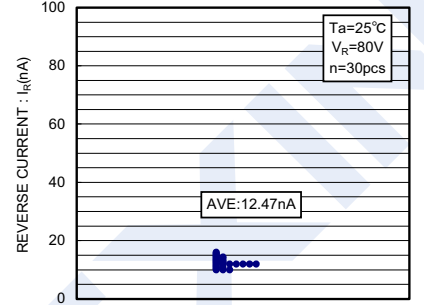
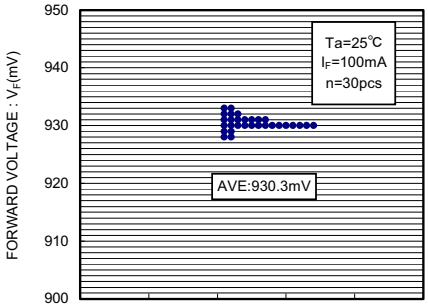
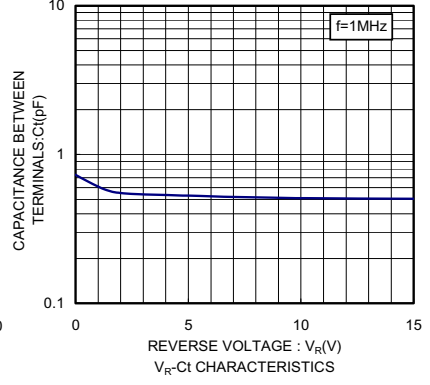
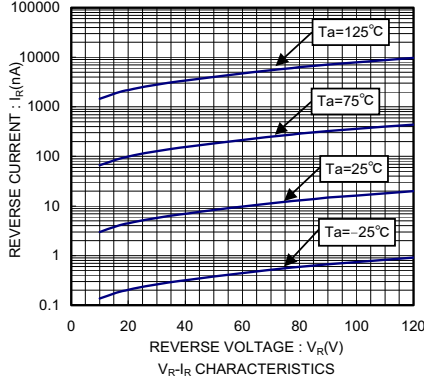
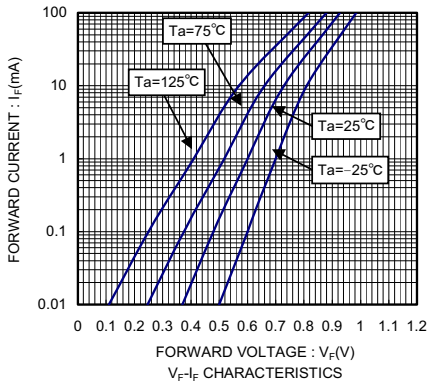
## ■ Marking

Marking	A*

# Switching Diodes

## 1KS4001G

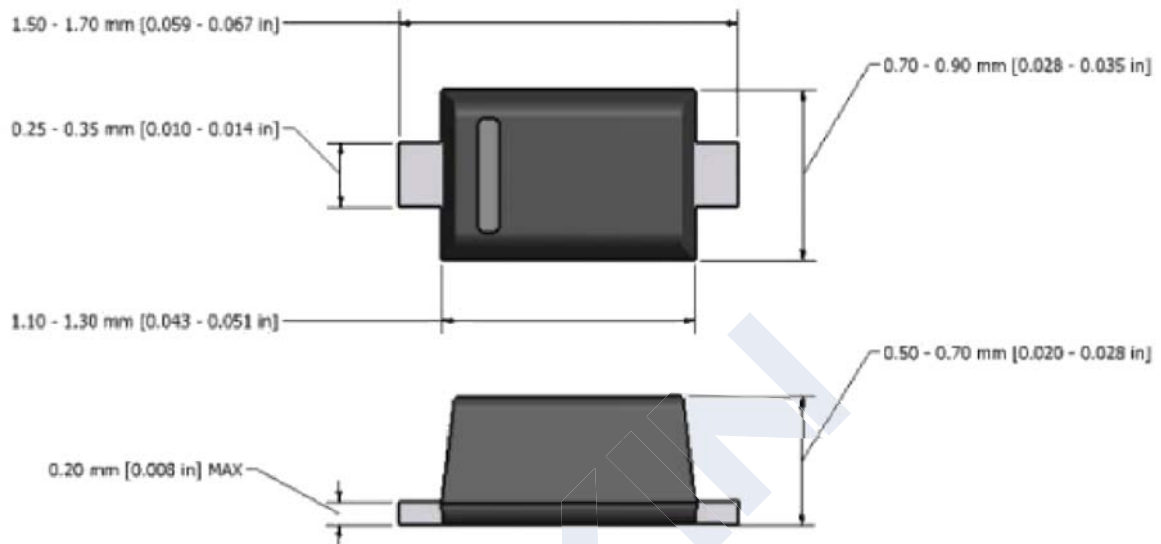
### Typical Characteristics



## Switching Diodes

### 1KS4001G

#### ■ Package Outline Dimensions (SOD-523)



**Note:** Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

#### ■ The Recommended Mounting Pad Size

