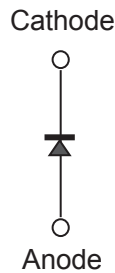


## General Purpose Silicon Rectifiers

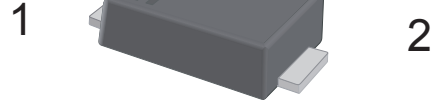
## 1N4001FL ~ 1N4007FL

## ■ Features

- Surface Mount General Purpose Silicon Rectifiers
- Reverse Voltage - 50 to 1000 V
- Forward Current: 1 A



SOD-123FL



Top View

## PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

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

Parameter	Symbol	1N4001FL	1N4002FL	1N4003FL	1N4004FL	1N4005FL	1N4006FL	1N4007FL	Unit	
Repetitive Peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Surge Peak reverse voltage	$V_{RSM}$	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000		
Forward voltage @ $I_F=1\text{A}$	$V_F$	1.1								A
Max.averaged fwd.current. @ $T_a=65^\circ\text{C}$	$I_{FAV}$	1								
Peak forward surge current	$I_{FSM}$	25								
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ $T_a=125^\circ\text{C}$	$I_R$	5								$\mu\text{A}$
		100								
Typical Junction Capacitance *1	$C_j$	4								pF
Thermal Resistance Junction to Ambient *2	$R_{\theta JA}$	180								$^\circ\text{C}/\text{W}$
Junction temperature	$T_j$	150								$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to 150								

\* 1 Measured at 1 MHz and applied reverse voltage of 4 V D.C

\* 2 Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

## ■ Marking

NO.	1N4001FL	1N4002FL	1N4003FL	1N4004FL	1N4005FL	1N4006FL	1N4007FL
Marking	A1	A2	A3	A4	A5	A6	A7

## General Purpose Silicon Rectifiers

### 1N4001FL ~ 1N4007FL

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

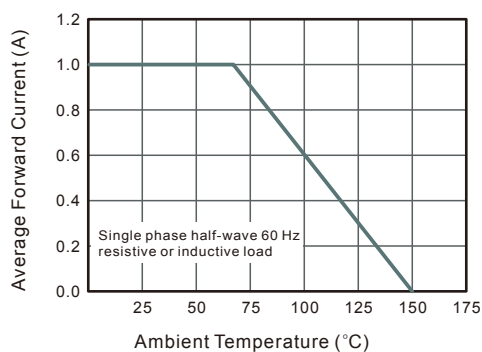


Fig.2 Typical Instaneous Reverse Characteristics

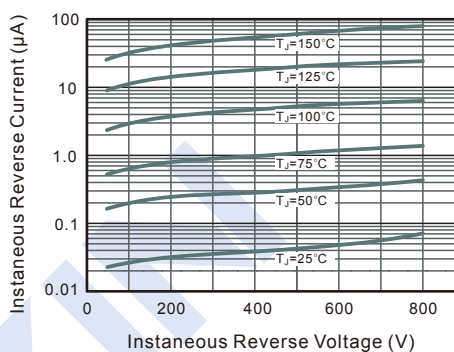


Fig.3 Typical Forward Characteristic

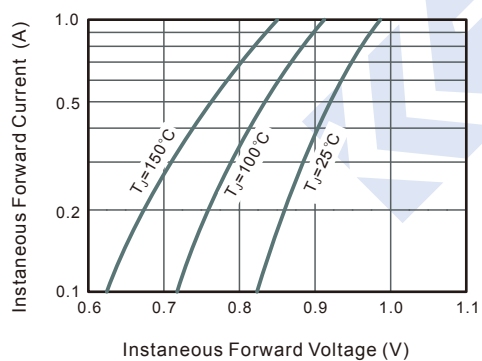
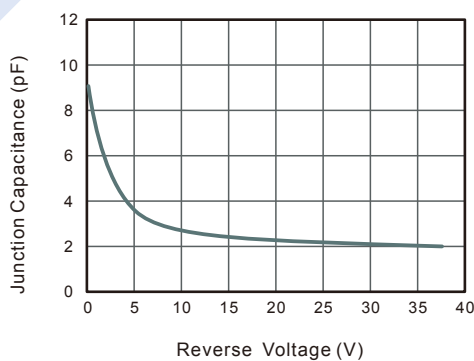


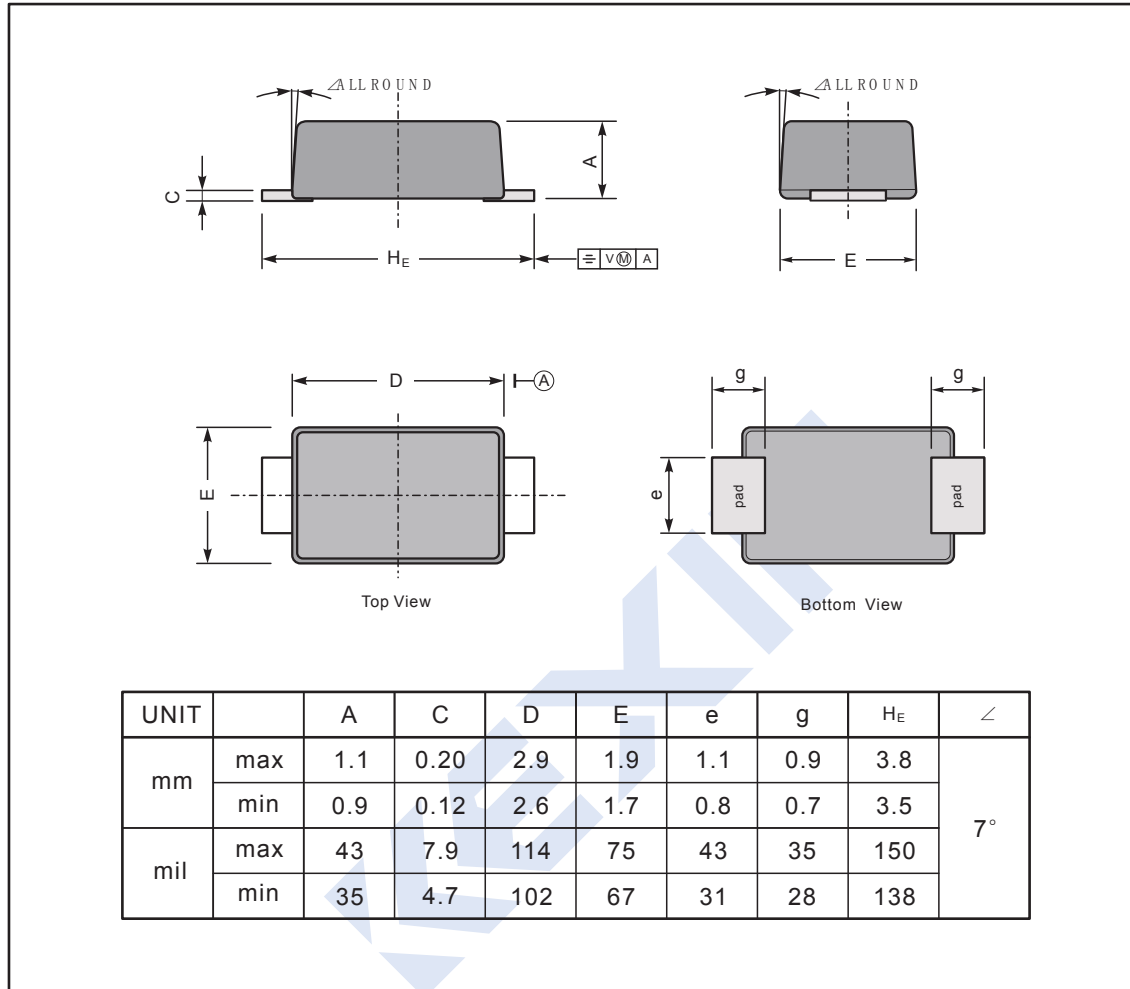
Fig.4 Typical Junction Capacitance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size

