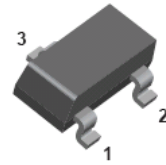


### 特点/Features :

速度快 ;

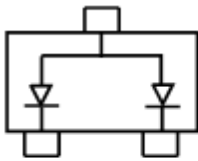
### 用途/Applications :

高速开关电路。

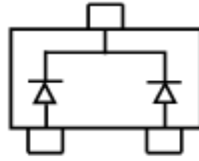


SOT-23

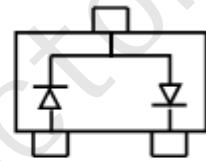
### 电路和印章/Circuit&Marking:



BAW56 Marking: A1



BAV70 Marking: A4



BAV99 Marking: A7

### 极限参数/Absolute maximum ratings(Ta=25°C)

参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
反向电压/Reverse Voltage	$V_R$	70	V
正向电流/Forward Current	$I_F$	200	mA
正向瞬间峰值电流/Peak Forward Surge Current	$I_{FM(surge)}$	500	mA
功率/ Power Dissipation	$P_D$	0.225	W
热阻/Thermal Resistance Junction to Ambient Air	$R_{JA}$	556	/W
结温/Junction Temperature	$T_j$	150	
储存温度/Storage Temperature	$T_{stg}$	-55 ~ 150	

### 电性能参数/Electrical characteristics (Ta=25°C)

参数/Parameter	符号	测试条件	最小值	最大值	单位
反向击穿电压/Reverse Breakdown Voltage	$V_R$	$I_R = 100 \mu A$	70		V
正向电压/Forward Voltage	$V_{F1}$	$I_F = 1mA$		0.715	V
	$V_{F2}$	$I_F = 10mA$		0.855	V
	$V_{F3}$	$I_F = 50mA$		1	$\mu A$
	$V_{F4}$	$I_F = 150mA$		1.25	$\mu A$
反向漏电流/Reverse Current	$I_R$	$V_R = 70V$		2.5	$\mu A$
端电容/Capacitance Between Terminals	$C_T$	$V_R = 0, f = 1MHz$		1.5	pF
反向恢复时间/Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 I_R,$ $R_L = 100$		6	nS

## 典型特性曲线图/Typical Characteristics

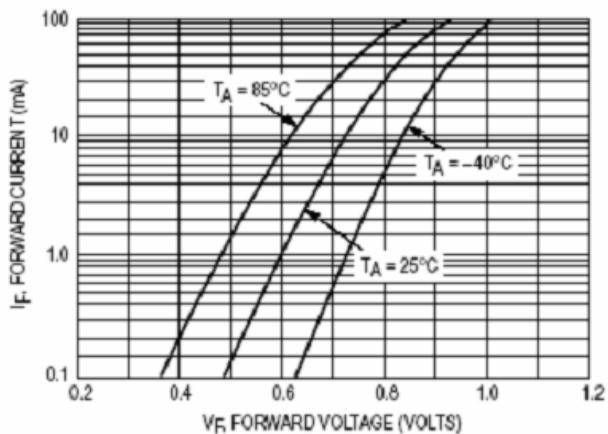


Figure 1. Forward Voltage

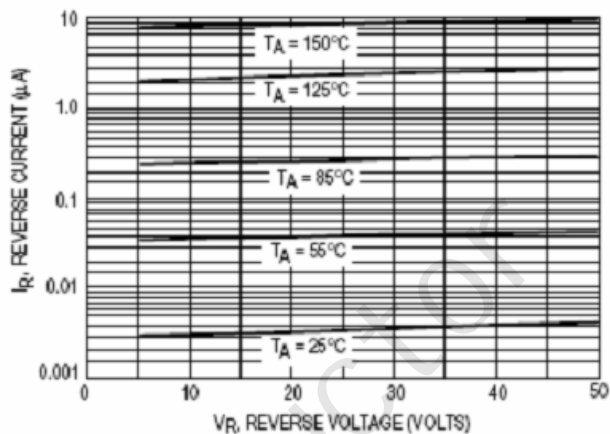


Figure 2. Leakage Current

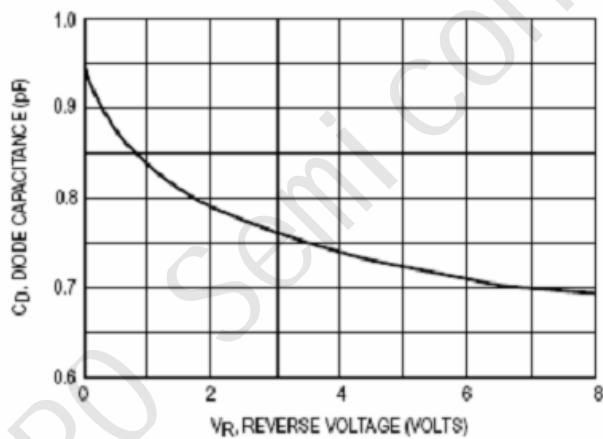
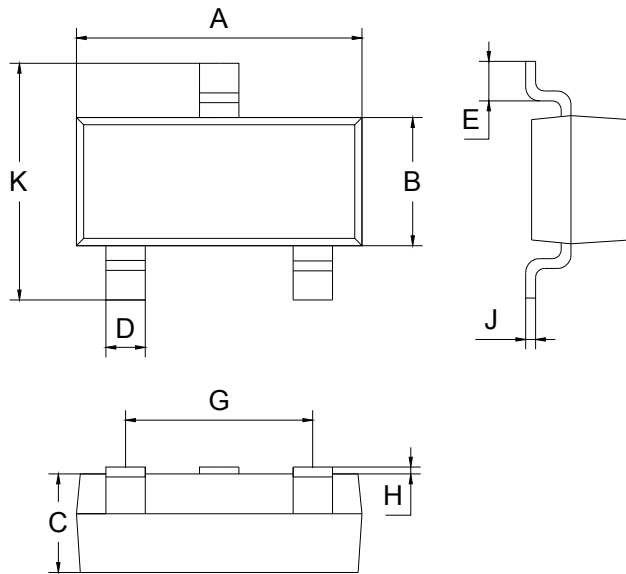


Figure 3. Capacitance

## 封装尺寸/PACKAGE OUTLINE

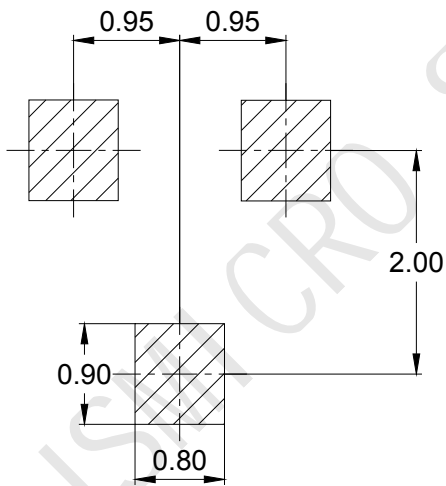
Plastic surface mounted package

SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.9	1.1
D	0.3	0.5
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

## SOLDERING FOOTPRINT



Unit : mm

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[SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914BTR](#) [RFUH20TB3S](#) [D291S45T](#) [BAV300-TR](#) [BAW56DWQ-](#)  
[7-F](#) [BAW56M3T5G](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [JAN1N4454UR-1](#) [LL4151-GS18](#) [SMMSD4148T3G](#)  
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[BAV99HDW-13](#) [MMDB30-E28X](#) [IDP20C65D2XKSA1](#) [LS4148](#) [IDV15E65D2](#) [NSVM1MA152WAT1G](#)