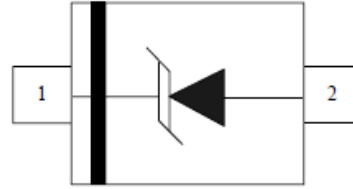




SOD-323



### Features

- Fast Switching
- Low Turn-on Voltage
- Designed For Surface Mount Application
- PN Junction Guard For Transient And ESD Protection

### Mechanical Data

- Molded JEDEC SOD-323 package
- Molding compound flammability rating:UL 94V-0

### Ordering Information

Part No.	Remark	Package	Packing
BAS70WS	General	SOD-323	3000/ Tape & Reel
BAS70WS-H	Halogen Free		

### Maximum Ratings and Electrical Characteristics, Single Diode @TA=25°C

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	$V_{RRM}$	70	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_F$	70	mA
Peak forward surge current @<1.0s	$I_{FSM}$	100	mA
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	K/W
Storage temperature	$T_{STG}$	-55 ~ 150	°C

### Electrical Ratings @TA=25°C

Parameter	Symbol	Max	Unit
Forward voltage $I_F=1mA$	$V_{F1}$	0.41	V
$I_F=15mA$	$V_{F2}$	1	
Reverse current $V_R=50V$	$I_R$	100	nA
Capacitance between terminals $V_R=0V, f=1MHz$	$C_T$	2	pF
Reverse Recovery Time $I_F=I_R=10mA I_{rr}=0.1I_R, R_L=100\Omega$	$T_{rr}$	5	ns
MARKING		K73	



Typical Characteristics

FIG. 1-Typical Forward Characteristics

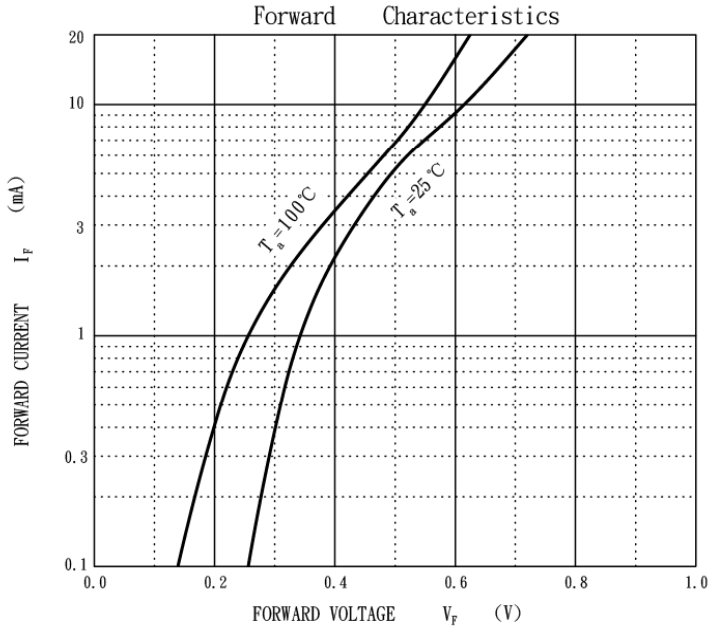


FIG. 2-Typical Reverse Characteristics

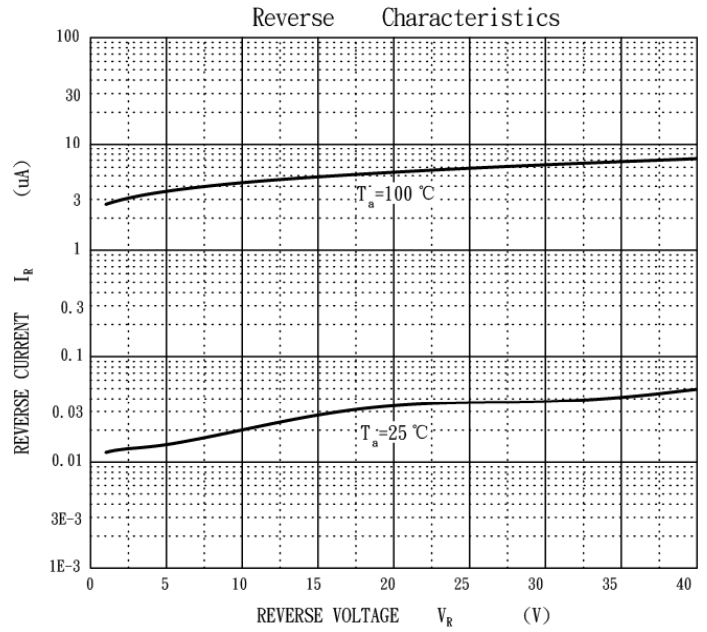
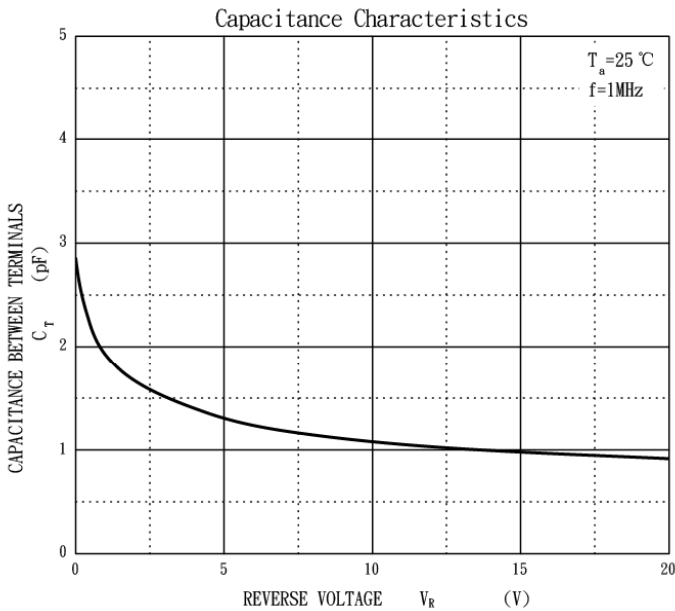
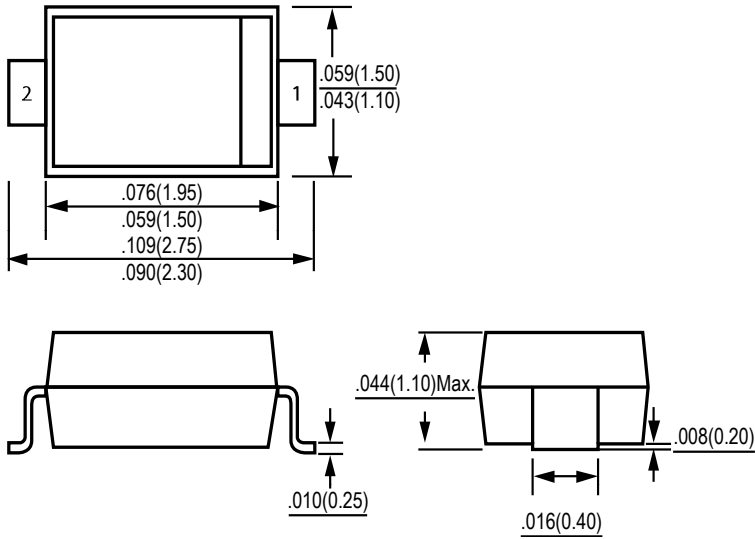


FIG.3-Typical Junction Capacitance





**Package Outline Dimensions**

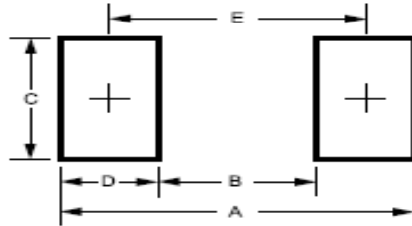


**SOD-323**

Dimensions in inches and (millimeters)

**Suggested Pad Layout**

Outline Symbol	SOD-323 millimeters
A	3.00
B	—
C	0.80
D	0.80
E	—



Item	Symbol	Dimension
		millimeters
Carrier width	A	1.48 ±0.10
Carrier length	B	3.30 ±0.10
Carrier depth	C	1.25 ±0.10
Sprocket hole	d	1.50 ±0.10
Reel outside diameter	D	178 ±2
Reel inner diameter	D1	54.4 ±1
Feed hole width	D2	13.0 ±1
Sprocket hole position	E	1.75 ±0.10
Punch hole position	F	3.50 ±0.10
Punch hole pitch	P	4.0 ±0.10
Sprocket hole pitch	P0	4.0 ±0.10
Embossment center	P1	2.0 ±0.10
Tape width	W	8.0 +0.3/-0.1
Reel width	W1	12.3 ±1

