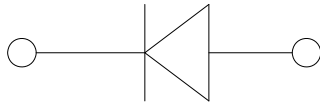
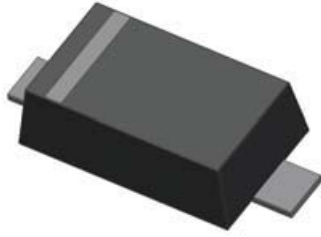


# BAS70X

## Schottky Barrier Diode



### Features

- $V_R$  70V
- $I_F$  70mA

### Typical Applications

- Low Forward Voltage Drop

### Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** K73

### ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	$P_D$	mW		150
Storage Temperature	$T_{stg}$	°C		-55 to +150
Junction Temperature	$T_J$	°C		125
DC Reverse Voltage	$V_R$	V		70
Average Rectified Forward Current	$I_{FAV}$	mA		70
Non-Repetitive Peak Forward Surge Current @ $t = 8.3ms$	IFSM	A		0.1

### ■ Electrical Characteristics ( $T_a=25^\circ C$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	$V_R$	V	$I_R=10\mu A$	70	
Reverse Leakage Current	$I_R$	nA	$V_R=50V$		100
Forward Voltage <sup>2</sup>	$V_F$	V	$I_F=1mA$		0.41
			$I_F=15mA$		1
Reverse Recovery Time	$T_{rr}$	ns	$I_F=I_R=10mA$ to $I_R=1mA, R_L=100\Omega$		5
Capacitance	$C_j$	pF	$V_R=1V, f=1MHz$		2

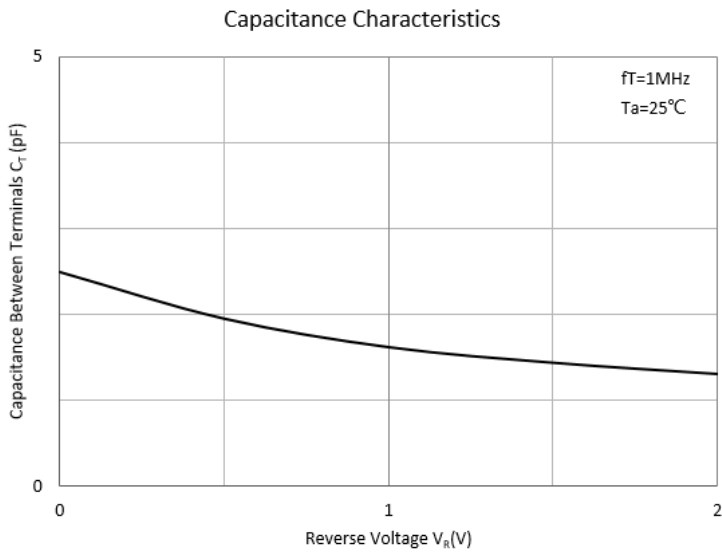
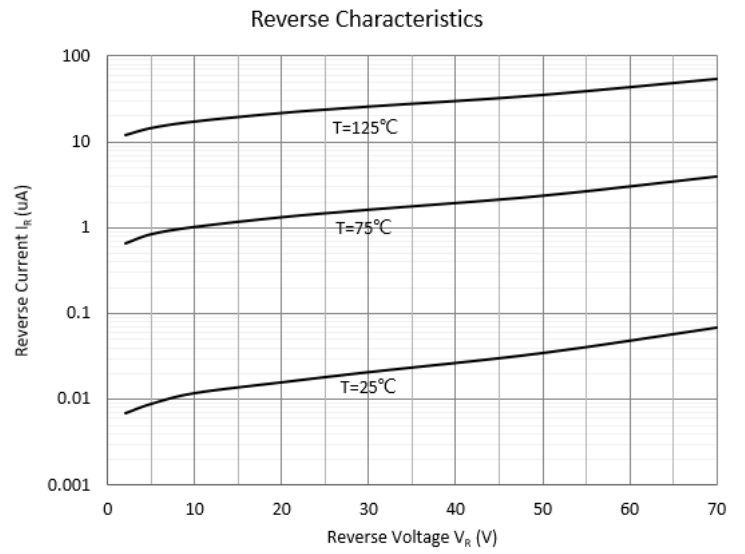
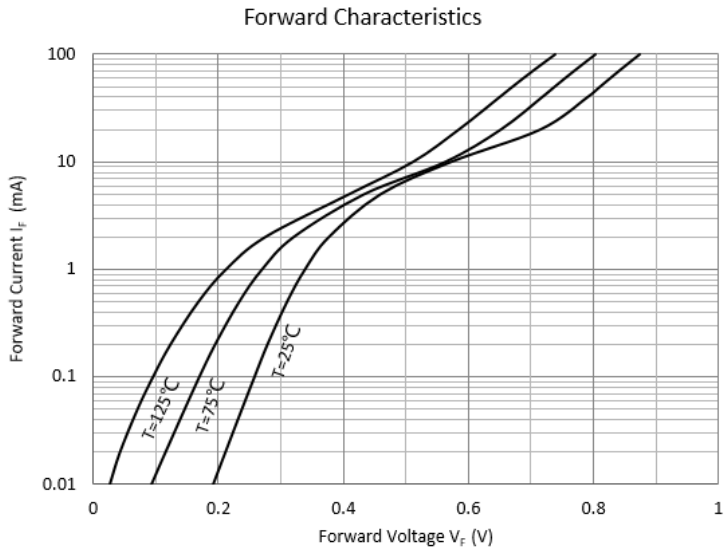
### ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS70X	F2	Approximate 0.0025	8000	80000	320000	7" reel



# BAS70X

## ■ Characteristics(Typical)

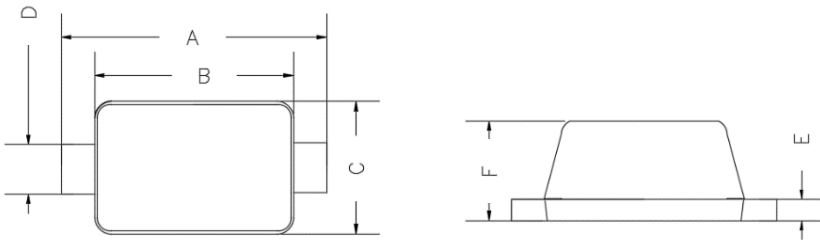




# BAS70X

## ■ Outline Dimensions

SOD-523

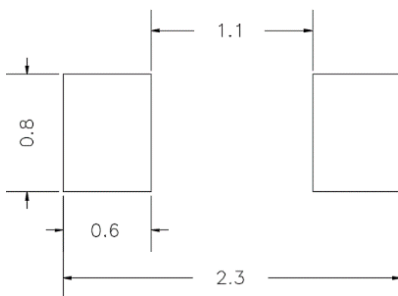


TOP VIEW

SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

## ■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



## BAS70X

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